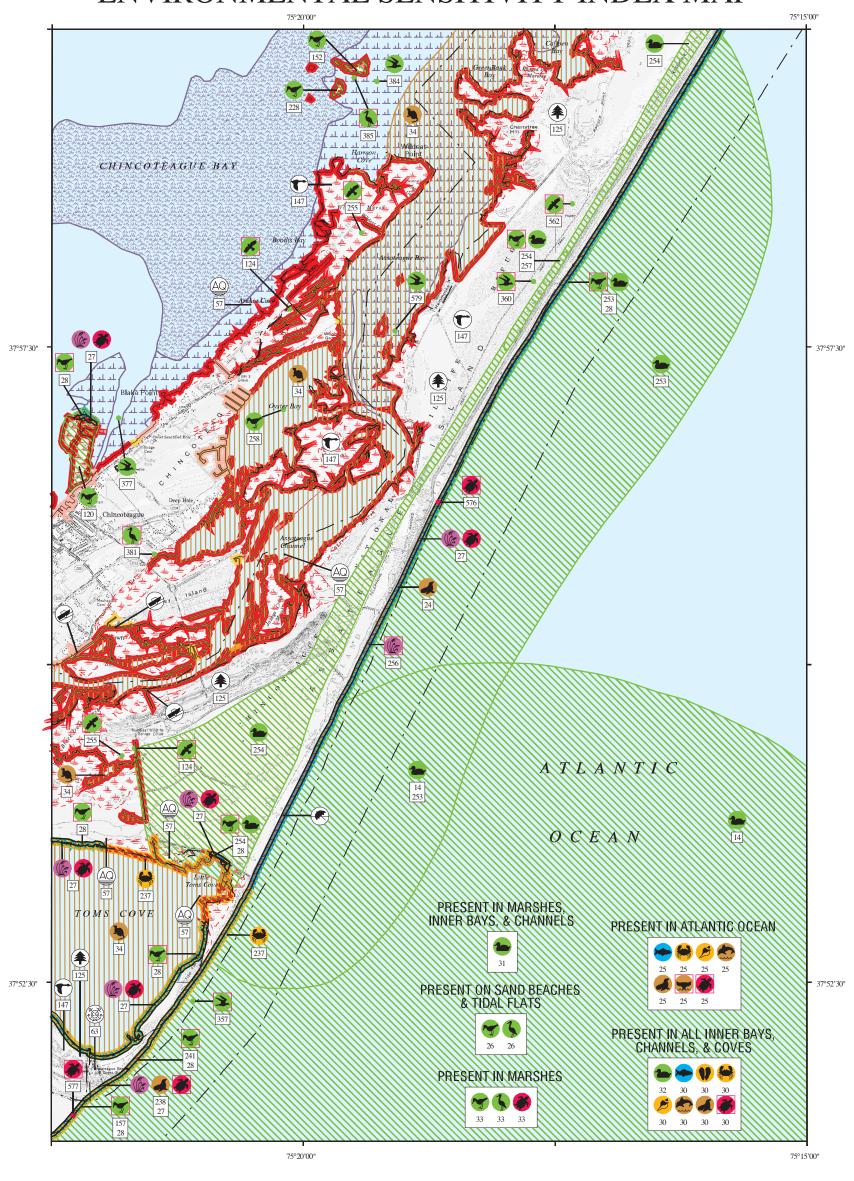
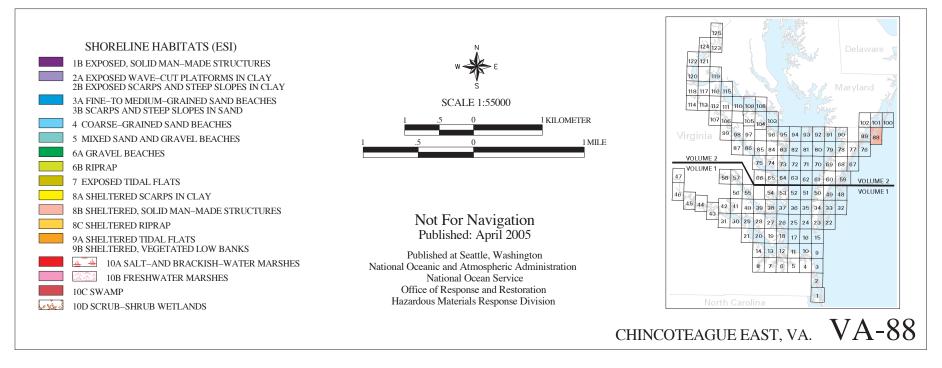
ENVIRONMENTAL SENSITIVITY INDEX MAP





Virginia: ESIMAP 88

BIOLOGICAL RESOURCES:

| BIRD | : |
|------|---|
|------|---|

RAR# Species

| RAR# | Species | S F Conc. | J F M A M J J A S O N D | _ | | Molting | ı | |
|------------|---|---|---|--|---|---|--|--|
| | Black scoter | HIGH | X X X X X X X X | | | | · - | |
| | Surf scoter | 112011 | X X X X X X X | | _ | _ | | |
| | White-winged scoter | | | - | - | - | | |
| 26 | American woodcock | | X X X X X X X | | - | - | | |
| | Black-bellied plover | | X X X X X X X X X | | - | - | | |
| | Dunlin | | XXXXX XXXX | - | _ | _ | | |
| | Greater yellowlegs Killdeer | | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | _ | _ | _ | | |
| | Least sandpiper | | X X X X X X X X X | _ | _ | _ | | |
| | Lesser yellowlegs | | $X \times X \times X \times X \times X$ | _ | _ | _ | | |
| | Pectoral sandpiper | | X X X X X X | - | - | _ | | |
| | Red knot | | X X X X X X | - | - | - | | |
| | Ruddy turnstone | | X X X X X X | - | - | - | | |
| | Sanderling | | X X X X X X X X X X X X X | | - | _ | | |
| | Semipalmated plover Semipalmated sandpiper | | $\begin{smallmatrix} X&X&X&X&X&X&X&X&X&X&X&X&X&X&X&X&X&X&X&$ | | _ | _ | | |
| | Short-billed dowitcher | | X X X X X X X X X X X X X | | _ | _ | | |
| | Stilt sandpiper | | XXXXX | _ | _ | _ | | |
| | Western sandpiper | | X X X X X X | - | - | - | | |
| | Whimbrel | | X X X X X X | - | - | - | | |
| | White-rumped sandpiper | | X X X | - | - | - | | |
| | Willet | | X X X X X X X X X X X X X | | - | _ | | |
| | Piping plover American black duck | T T HIGH | $\begin{smallmatrix} & & \times & \times & \times & \times & \times & \times \\ & \times & \times & \times$ | APR-SEP | _ | _ | | |
| 21 | American black duck American wigeon | HIGH MODERATE | XXXX XXXX | MAK-JUL - | _ | _ | | |
| | Brant | HIGH | X X X X X X X X | _ | _ | _ | | |
| | Canada goose | HIGH | \times | | _ | _ | | |
| | Gadwall | MODERATE | X X X X X X X X X X | | - | _ | | |
| | Green-winged teal | MODERATE | X X X X X X X X X X X X X X X X X X X | - | - | - | | |
| | Mallard | MODERATE | $\times \times $ | | - | - | | |
| | Northern pintail | MODERATE | X X X X X X X X | | - | _ | | |
| | Northern shoveler | штон | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | - | - | | |
| 32 | Snow goose Bufflehead | HIGH HIGH | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | _ | _ | | |
| J. | Common goldeneye | 111-011 | X X X X X X X X | | _ | _ | | |
| | Mergansers | HIGH | X X X X X X X X X | | - | _ | | |
| | Ruddy duck | | X X X X X X X X X X X X X X X X X X X | | - | _ | | |
| | Scaup | | X X X X X X X X X X X X X X X X X X X | - | - | _ | | |
| | Tundra swan | MODERATE | $X \ X \ X \ X \qquad \qquad X \ X \ X$ | - | - | - | | |
| 33 | Clapper rail | HIGH | X X X X X X X X X X X X X | APR-AUG | - | - | | |
| | King rail | | X X X X X X X X X X X X X | _ | _ | _ | | |
| | Sora Virginia rail | | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | _ | _ | | |
| | Whimbrel | HIGH | X X X X X X X X X X X X X X X X X X X | - AIR 00N | _ | _ | | |
| | Willet | HIGH | X X X X X X X X X X X X X | | _ | _ | | |
| 120 | American oystercatcher | | X X X X X X X | MAR-JUL | - | _ | | |
| 124 | Bald eagle | T T | $X \ X \ X \ X \ X \ X \ X \ X \ X$ | FEB-MAY | - | _ | | |
| 152 | American oystercatcher American oystercatcher American oystercatcher American oystercatcher Sea ducks | 8 ADULTS | X X X X X X X | MAR-JUL MAR-JUL MAR-JUL MAR-JUL | - | - | | |
| 157 | American oystercatcher | 12 ADULTS | X X X X X X X | MAR-JUL | - | _ | | |
| 228 | American oystercatcher | 6 ADULTS | XXXXXX | MAR-JUL | - | _ | | |
| 253 | American oystercatcher | 3 ADULTS | X X X X X X X X X | MAK-JUL | _ | _ | | |
| 253 | American black duck | VERY HIGH | X X X X X X X X X | _ | | _ | | |
| 201 | Dabbling ducks | VERY HIGH 25,000-40,000 VERY HIGH HIGH | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | _ | _ | _ | | |
| | Malland | VERY HIGH | X X X X X X X X X | - | - | _ | | |
| | Northern pintail Snow goose | HIGH | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | - | - | _ | | |
| | Snow goose | 50000 HIGH T T T T | $X \ X \ X \ X \qquad \qquad X \ X \ X$ | | - | - | | |
| 0.5.5 | Tundra swan | HIGH | X X X X X X X X | | - | _ | | |
| 255 | Bald eagle Piping plover | T T | X X X X X X X X X X | | | _ | | |
| 257 258 | American overereatcher | T T HIGH | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | APR-SEP - | | _ | | |
| 357 | American oystercatcher Black skimmer | 36 ADIII.TS | XXXXXXXX | MAY-JUL | | _ | | |
| 337 | Common tern | 24 ADULTS | | MAY-JUL | | _ | | |
| | Least tern | C 200 ADULTS | X X X X X X X | MAY-JUL | | _ | | |
| 360 | Least tern | 24 ADULTS C 200 ADULTS C 20 ADULTS | X X X X X X X | MAY-JUL | - | - | | |
| | Black skimmer | 6 ADULTS | X X X X X X X X | MAY-JUIL | - | - | | |
| 381 | Yellow-crowned night-heron Great black-backed gull Herring gull | C 6 ADULTS | XXXXX | | - | _ | | |
| 384 | Great black-backed gull Herring gull | 4 ADULTS 50 ADULTS | X X X X X X X X X X X X X X X X X X X | | _ | _ | | |
| 3.85 | Rlack-crowned night-heron | A ADIII TG | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | _ | _ | | |
| 303 | Great egret | C 10 ADULTS | X X X X X X X X X X X X X | MAY-JUI | _ | _ | | |
| | Snowy egret | 4 ADULTS | X X X X X X X X X | | - | _ | | |
| 562 | Black-crowned night-heron Great egret Snowy egret Peregrine falcon | Т | X X X X X X | MAR-AUG | - | _ | | |
| 579 | Forster's tern | 35 ADULTS | X X X X X X X X | MAY-JUL | - | _ | | |
| FISH | • | | | | | | | |
| | . • | | | | | | | |
| RAR# | | 0.7.0 | | G : | 7 | T = | T | |
| | | S F Conc. | J F M A M J J A S O N D | Spawning | Eggs | Larvae | Juveniles | |
| 2.5 | Species | S F Conc. | | | _ | _ | Juveniles | |
| 25 | | S F Conc. | X X X X X X X X | - | _ | _ | | |
| 25 | Species | S F Conc. | | - - - | _ | _ | AUG-DEC | MAY-NOV |
| 25 | Species | S F Conc. | | - - - | _ | _ | AUG-DEC | MAY-NOV MAR-APR |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass | S F Conc. | X X X X X X X X X X X X X X X X X X X | - - - - - JUN-OCT | - - - - | - - - - | AUG-DEC - JAN-DEC - APR-OCT | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish | S F Conc. | X X X X X X X X X X X X X X X X X X X | - - - - - JUN-OCT | - - - - | - - - - | AUG-DEC - JAN-DEC - APR-OCT MAY-NOV | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish | S F Conc. | X X X X X X X X X X X X X X X X X X X | - - - - JUN-OCT - | - - - - | - - - - | AUG-DEC - JAN-DEC - APR-OCT MAY-NOV JUL-NOV | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack | S F Conc. | X X X X X X X X X X X X X X X X X X X | - - - - JUN-OCT - - | - - - - | - - - - | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish | S F Conc. | X X X X X X X X X X X X X X X X X X X | - - - JUN-OCT - - - MAY-AUG | - - - - - - | - - - - - - | AUG-DEC - JAN-DEC - APR-OCT MAY-NOV JUL-NOV | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack | S F Conc. | X X X X X X X X X X X X X X X X X X X | - - - JUN-OCT - - - MAY-AUG | - - - - - - | - - - - - - | AUG-DEC JAN-DEC - APR-OCT MAY-NOV JUL-NOV JAN-DEC - | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin | S F Conc. | X X X X X X X X X X X X X X X X X X X | - - - JUN-OCT - - - MAY-AUG | - - - - - - - - | - - - - - - | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC - | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock | S F Conc. | X X X X X X X X X X X X X X X X X X X | - - - JUN-OCT - - - MAY-AUG | - - - - - - - - - | - - - - - - | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake | S F Conc. | X X X X X X X X X X X X X X X X X X X | JUN-OCT MAY-AUG JUL-NOV | - - - - - - - - - | - | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark | S F Conc. | X X X X X X X X X X X X X X X X X X X | JUN-OCT MAY-AUG - JUL-NOV | - - - - - - - - - | - | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC FEB-MAY MAY-OCT | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) | S F Conc. | X X X X X X X X X X X X X X X X X X X | JUN-OCT MAY-AUG JUL-NOV - - JUL-NOV | - - - - - - - - - | - | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC FEB-MAY MAY-OCT JUN-OCT | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake | S F Conc. | X X X X X X X X X X X X X X X X X X X | JUN-OCT MAY-AUG - JUL-NOV | - - - - - - - - - | - | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC - - FEB-MAY MAY-OCT JUN-OCT | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT OCT-MAY |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake Southern kingfish (whiting) | S F Conc. | X X X X X X X X X X X X X X X X X X X | JUN-OCT MAY-AUG - JUL-NOV | - - - - - - - - - - - - | - | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC FEB-MAY MAY-OCT JUN-OCT | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT OCT-MAY APR-OCT |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake Southern kingfish (whiting) Spanish mackerel | S F Conc. | X X X X X X X X X X X X X X X X X X X | JUN-OCT MAY-AUG - JUL-NOV | - - - - - - - - - | - | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC - - FEB-MAY MAY-OCT JUN-OCT | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT OCT-MAY APR-OCT APR-OCT |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake Southern kingfish (whiting) | S F Conc. | X X X X X X X X X X X X X X X X X X X | JUN-OCT MAY-AUG - JUL-NOV | - - - - - - - - - - - - - - - - - - - | - | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC - - FEB-MAY MAY-OCT JUN-OCT | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT OCT-MAY APR-OCT |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake Southern kingfish (whiting) Spanish mackerel Spiny dogfish | S F Conc. | X X X X X X X X X X X X X X X X X X X | JUN-OCT MAY-AUG - JUL-NOV | - - - - - - - - - - - - - - - - - - - | - | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC FEB-MAY MAY-OCT JUN-OCT | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT OCT-MAY APR-OCT APR-OCT APR-OCT APR-OCT OCT-MAY APR-OCT APR-MAY NOV-APR |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake Southern kingfish (whiting) Spanish mackerel Spiny dogfish Spot Spotted hake | S F Conc. | X X X X X X X X X X X X X X X X X X X | | - - - - - - - - - - - - - - - - - - - | - - - - - - - - - - - - - - - - - - - | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC FEB-MAY MAY-OCT JUN-OCT MAR-NOV MAR-JUN | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT OCT-MAY APR-OCT APR-OCT APR-OCT MAY-OCT MAR-OCT OCT-MAY APR-OCT APR-MAY NOV-APR MAR-NOV |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake Southern kingfish (whiting) Spanish mackerel Spiny dogfish Spot Spotted seatrout | S F Conc. | X X X X X X X X X X X X X X X X X X X | | - - - - - - - - - - - - - - - - - - - | - - - - - - - - - - DEC-APR | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC FEB-MAY MAY-OCT JUN-OCT MAR-NOV MAR-JUN APR-NOV | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT OCT-MAY APR-OCT APR-MAY NOV-APR MAY-NOV APR-NOV APR-NOV |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake Southern kingfish (whiting) Spanish mackerel Spiny dogfish Spot Spotted hake Spotted seatrout Summer flounder | S F Conc. | X X X X X X X X X X X X X X X X X X X | | | - - - - - - - - - - DEC-APR | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC FEB-MAY MAY-OCT JUN-OCT MAR-NOV MAR-JUN APR-NOV | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT OCT-MAY APR-OCT APR-MAY NOV-APR MAR-NOV MAR-JUN SEP-NOV APR-NOV APR-NOV APR-NOV APR-NOV |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake Southern kingfish (whiting) Spanish mackerel Spiny dogfish Spot Spotted hake Spotted seatrout Summer flounder Tautog | S F Conc. | X X X X X X X X X X X X X X X X X X X | | | DEC-APR OCT-MAY | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC FEB-MAY MAY-OCT JUN-OCT MAR-NOV MAR-JUN APR-NOV | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT OCT-MAY APR-OCT APR-MAY NOV-APR MAR-NOV APR-NOV |
| | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake Southern kingfish (whiting) Spanish mackerel Spiny dogfish Spot Spotted seatrout Summer flounder Tautog Weakfish | S F Conc. | X X X X X X X X X X X X X X X X X X X | | | | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC FEB-MAY MAY-OCT JUN-OCT MAR-NOV MAR-JUN APR-NOV APR-NOV | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT OCT-MAY APR-OCT APR-OCT APR-OCT APR-OCT APR-OCT APR-OCT APR-OCT APR-OCT APR-OCT APR-MAY NOV-APR MAR-NOV APR-NOV APR-NOV APR-NOV APR-NOV APR-NOV APR-NOV APR-NOV APR-NOV APR-NOV |
| 25 | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake Southern kingfish (whiting) Spanish mackerel Spiny dogfish Spot Spotted seatrout Summer flounder Tautog Weakfish Hogchoker | S F Conc. | X X X X X X X X X X X X X X X X X X X | | | | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC FEB-MAY MAY-OCT JUN-OCT MAR-NOV MAR-JUN APR-NOV JAN-DEC | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT OCT-MAY APR-OCT APR-MAY NOV-APR MAR-NOV MAR-JUN SEP-NOV APR-NOV JAN-DEC APR-NOV JAN-DEC |
| | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake Southern kingfish (whiting) Spanish mackerel Spiny dogfish Spot Spotted seatrout Summer flounder Tautog Weakfish | S F Conc. | | | - - - - - - - - - - - - - - - - - - - | | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC FEB-MAY MAY-OCT JUN-OCT MAR-NOV MAR-JUN APR-NOV JAN-DEC JAN-DEC JAN-DEC | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT OCT-MAY APR-OCT APR-MAY NOV-APR MAR-NOV MAR-JUN SEP-NOV APR-NOV JAN-DEC JAN-DEC JAN-DEC |
| | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake Southern kingfish (whiting) Spanish mackerel Spiny dogfish Spot Spotted hake Spotted seatrout Summer flounder Tautog Weakfish Hogchoker Killifish | S F Conc. | X X X X X X X X X X X X X X X X X X X | | - - - - - - - - - - - - - - - - - - - | | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC FEB-MAY MAY-OCT JUN-OCT MAR-NOV MAR-JUN APR-NOV JAN-DEC | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT OCT-MAY APR-OCT APR-MAY NOV-APR MAR-NOV MAR-JUN SEP-NOV APR-NOV JAN-DEC APR-NOV JAN-DEC |
| | Atlantic croaker Atlantic mackerel Atlantic menhaden Black drum Black sea bass Bluefish Butterfish Crevalle jack Northern kingfish Northern searobin Pollock Red drum Red hake Sandbar shark Scup (porgy) Silver hake Southern kingfish (whiting) Spanish mackerel Spiny dogfish Spot Spotted hake Spotted seatrout Summer flounder Tautog Weakfish Hogchoker Killifish Minnows | S F Conc. | X X X X X X X X X X X X X X X X X X X | | - - - - - - - - - - - - - - - - - - - | | AUG-DEC JAN-DEC APR-OCT MAY-NOV JUL-NOV JAN-DEC FEB-MAY MAY-OCT JUN-OCT MAR-NOV MAR-JUN APR-NOV JAN-DEC JAN-DEC JAN-DEC JAN-DEC | MAY-NOV MAR-APR MAY-OCT APR-OCT APR-OCT APR-NOV MAR-NOV - APR-OCT MAR-OCT DEC-APR MAY-NOV FEB-MAY SEP-NOV MAY-OCT MAR-OCT OCT-MAY APR-OCT APR-MAY NOV-APR MAR-NOV MAR-JUN SEP-NOV APR-NOV APR-NOV APR-OCT JAN-DEC JAN-DEC JAN-DEC JAN-DEC |

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 88 (cont.)

ASSATEAGUE BEACH USCG STATION

BIOLOGICAL RESOURCES: (cont.)

| | (cont.) Species | S F Conc. | | JFM | АМ | JJ | AS | OND | Spawning | Eggs | Larvae | Juv | reniles | Adults |
|---|--|----------------------------------|-------------------|-----------|---------------------|---------|---------|---|--------------------|--------------|---------------|------|----------------|--------------------|
| 30 1 | | | | × × × | v v | v v | v v | . | | | | | I-DEC | JAN-DEC |
| | Northern searobin | | | A A A | ΛΛ | XX | | | - | _ | - | JUN | I-AUG | JUN-AUG |
| | Pollock Red drum | | | XXX | | V V | v v | X X X X | JUL-NOV | - | - | | - G-SEP | DEC-APR MAY-NOV |
| | Red hake | | | X X | | | | XXX | - JOT-NOA | - | - | | 3-MAY | FEB-MAY SEP-NOV |
| | Sandbar shark | | | V | | | XX | | - | - | - | | 7-0CT 1-0CT | MAY-OCT MAR-OCT |
| | Scup (porgy) Silver hake | | | XXX | | | ХХ | XXX | - - | _ | - | | - | OCT-MAY |
| | Silver perch | | | | | | | | APR-MAY | APR-MAY | APR-JUN | | I-DEC | JAN-DEC |
| | Silversides Spanish mackerel | | | | XX | | XX | XXX | MAR-JUL - | MAR-JUL - | APR-SEP - | | I-DEC - | JAN-DEC APR-MAY |
| 5 | - Spot | | | | ХХ | | ХХ | | - | - | - | | R-OCT | JUL-SEP |
| | Spotted hake Spotted seatrout | | | XXX | | · v v | v v | X X X X X X X X X X X X X X X X X X X | - MAY-JUL | _ | - | | !-APR R-NOV | - APR-NOV |
| | Striped anchovy | | | | | | | XXX | APR-SEP | _ | - | | R-NOV | APR-NOV |
| | Summer flounder | | | | | XX | ХХ | XXX | _ | - | - | | NOV- | APR-NOV |
| | Cautog Weakfish | | | X X X | | ХХ | ХХ | X X X | - APR-AUG | _ | _ | | - R-OCT | OCT-APR APR-OCT |
| V | White hake | | | X | ХХ | | Х | XXX | - | - | - | | - | MAR-MAY SEP-NOV |
| | White perch Winter flounder | | | X | | | | X X X X | APR-JUN | APR-JUN - | APR-JUN - | | I-DEC C-JUL | JAN-DEC DEC-MAY |
| | Alewife | | | XX | | | | | - | - | - | | - | FEB-JUN |
| | American eel | | | | | | ХХ | XXXX | - | - | - | JAN | I-DEC | - |
| | American shad Atlantic croaker | | | ХХ | | | хх | XXX | - - | _ | _ | MAY | - Y-DEC | FEB-JUN - |
| Z | Atlantic herring | | | ХХ | ХХ | | | | - | - | - | | - | FEB-JUN |
| | Atlantic mackerel Atlantic menhaden | | | Χ | X | . v v | v v | . A A | - | - | - | MAV | - '-NOV | MAR-APR |
| | atiantic mennaden Bay anchovy | | | ххх | | | | X | - APR-SEP | - | - | | -NOV I-DEC | MAY-OCT JAN-DEC |
| E | Black drum | | | | ХХ | XX | ХХ | X | - | - | - | | - | APR-OCT |
| | Black sea bass Blueback herring | | | | | | XX | | _ | _ | - FEB-JUN | | R-SEP B-OCT | APR-SEP FEB-JUN |
| E | Bluefish | | | ΛΛ | | | XX | | - | - | - | | 7-0CT | MAY-OCT |
| | Crevalle jack Gobies | | | | | | | XXXX | | - APR-SEP | - APR-OCT | | I-DEC | - JAN-DEC |
| | Hickory shad | | | XXX | | | . А. А | | APR-SEP - | APK-SEP | APR-OCT | JAN | - 1-DEC | FEB-JUN |
| BIT | | G. F. Gama | | v | | | | | | | | | | |
| | Species | S F Conc. | | | | | | OND | | | | | | |
| | Maritime dune scrub | | | | | | | XXXX | | | | | | |
| | Native coastal strand vegetation Sea-beach knotweed | | | | | | | $X \times X \times$ | | | | | | |
| | Southern beach spurge | | | | | | | XXXX | | | | | | |
| 6 5 | Seabeach amaranth | Т | | X X X | ХХ | XX | ХХ | XXXX | | | | | | |
| VER | TEBRATE: | | | | | | | | | | | | | |
| R# 5 | Species | S F Conc. | | JFM | A M | JJ | A S | OND | Spawning | Eggs | Larvae | Juv | reniles | Adults |
| 25 E | Blue crab | | | v v v | v v | v v | v v | . x x x | | | MAY-NOV | | I-DEC | JAN-DEC |
| | Channeled whelk | | | | | | | XXXX | | _ | MAI -NOV - | | I-DEC | JAN-DEC |
| | Blue crab | | | | | | | XXXX | | MAY-SEP | MAY-NOV | | I-DEC | JAN-DEC |
| | Channeled whelk Northern quahog (hard clam) | | | | | | | X | - MAY-OCT | - MAY-OCT | - MAY-OCT | | I-DEC I-DEC | JAN-DEC JAN-DEC |
| | Horseshoe crab | | | | | XX | | | APR-JUL | | - | | - | MAY-JUL |
| RIN | E MAMMAL: | | | | | | | | | | | | | |
| | Species | S F Conc. | | JFM | A M | JJ | AS | O N D | Mating | Calving | Pupping | Mol | ting. | |
| | Harbor seal | | | х х | | | | XXX | | - | - | | - | |
| | Bottlenose dolphin | | | | | | ХХ | | - | - | - | | - | |
| | Common dolphin Harbor porpoise | | | ххх | | | ХХ | X X | - - | _ | _ | | _ | |
| | Harbor seal | | | XX | 21 21 | • | | XXX | | - | - | | - | |
| | Humpback whale | E E | | | | | | X X X | _ | JAN-DEC | - | | - | |
| | Bottlenose dolphin Harbor porpoise | | | ххх | | | ХХ | X X | _ | _ | _ | | _ | |
| I | Harbor seal | | | ХХ | | | | XXX | _ | - | - | | - | |
| 8 I | Harbor seal | | | ХХ | | | | XXX | - | - | - | | - | |
| PTI: | LE: Species | S F Conc. | | JFM | а м | ıjj | AS | OND | Nesting | Hatching | Internest | ting | Juvenil | es Adu |
| | - | Т Т | | | | | | X X X | - | | | | MAY-NOV | |
| F | Kemp's ridley sea turtle | E E | | | Х | XX | XX | XXX | - | - | - | | MAY-NOV | MAY |
| | Leatherback sea turtle Loggerhead sea turtle | E E T T | | | | | | XXX | _ | - | - | | - MAY-NOV | MAY MAY |
| | Diamondback terrapin | | | Х | | | | XXX | MAY-JUL | - | - | | MAR-NOV | |
| | Green sea turtle | ТТ | | | | | | XXX | - | - | - | | MAY-NOV | |
| _ | Kemp's ridley sea turtle Leatherback sea turtle | E E E E | | | | | | XXX | - | - | - | | MAY-NOV - | MAY MAY |
| | | TT | | | X | XX | ХХ | XX | - | - | - | | MAY-NOV | MAY |
| I | Loggerhead sea turtle | | | Х | | | | XXX | - MAY-NOV | - | - | | MAR-NOV | MAR MAY |
| 1 3 1 | Loggerhead sea turtle Diamondback terrapin | VERY HIGH | | | Λ | | | XXX | MAY-NOV MAY-NOV | - | - | | - | MAY |
| 1 3 I 8 I | Loggerhead sea turtle | | | | X | | | · v v | TOTA SERVE | | | | _ | MAY |
| 3 I 8 I 6 I | Loggerhead sea turtle Diamondback terrapin Loggerhead sea turtle | VERY HIGH T T | | | | | XX | | MAY-NOV | - | - | | | |
| 3 I 8 I 6 I 7 I | Loggerhead sea turtle Diamondback terrapin Loggerhead sea turtle Loggerhead sea turtle Loggerhead sea turtle Loggerhead sea turtle STRIAL MAMMAL: | VERY HIGH T T T T T T | | мчг | Х | XX | XX | | | _ | - | | | |
| I I I I I I I I I I I I I I I I I I I | Loggerhead sea turtle Diamondback terrapin Loggerhead sea turtle Loggerhead sea turtle Loggerhead sea turtle Loggerhead sea turtle STRIAL MAMMAL: Species | VERY HIGH T T T T | | | х а м | . X X | A S | S O N D | | - | - | | | |
| 3 I 8 I 6 I 7 I RRE # 8 | Loggerhead sea turtle Diamondback terrapin Loggerhead sea turtle Loggerhead sea turtle Loggerhead sea turtle STRIAL MAMMAL: Species Worthern river otter | VERY HIGH T T T T T T | | | х а м | . X X | A S | | | - | - | | | |
| 3 I I I I I I I I I I I I I I I I I I I | Loggerhead sea turtle Diamondback terrapin Loggerhead sea turtle Loggerhead sea turtle Loggerhead sea turtle STRIAL MAMMAL: Species Worthern river otter | VERY HIGH T T T T T T | | | х а м | . X X | A S | S O N D | | - | - | | | |
| 3 I 1 8 I 1 7 I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Loggerhead sea turtle Diamondback terrapin Loggerhead sea turtle Loggerhead sea turtle Loggerhead sea turtle STRIAL MAMMAL: Species | VERY HIGH T T T T T T S F Conc. | ==== = | | х а м | . X X | A S | S O N D | | | | | | |
| I I I I I I I I I I I I I I I I I I I | Loggerhead sea turtle Diamondback terrapin Loggerhead sea turtle Loggerhead sea turtle Loggerhead sea turtle STRIAL MAMMAL: Species Worthern river otter | VERY HIGH T T T T T T S F Conc. | | | х а м | . X X | A S | S O N D | | p | | | | |
| 3 I I I I I I I I I I I I I I I I I I I | Loggerhead sea turtle Diamondback terrapin Loggerhead sea turtle Loggerhead sea turtle Loggerhead sea turtle STRIAL MAMMAL: Species Logter river otter USE RESOURCES: ULTURE: Name | VERY HIGH T T T T T T S F Conc. | ==== = | | х а м | . X X | A S | S O N D | | p | | | | |
| I I I I I I I I I I I I I I I I I I I | Loggerhead sea turtle Diamondback terrapin Loggerhead sea turtle Loggerhead sea turtle Loggerhead sea turtle Loggerhead sea turtle STRIAL MAMMAL: Species Lorthern river otter USE RESOURCES: ULTURE: Name | VERY HIGH T T T T T T S F Conc. | ==== = | | х а м | . X X | A S | S O N D | | p | | | | |

Virginia: ESIMAP 88 (cont.)

HUMAN USE RESOURCES: (cont.)

NATIONAL PARK:

 HUN#
 Name
 Contact
 Phone

 125
 ASSATEAGUE ISLAND NATIONAL SEASHORE
 NATIONAL PARK SERVICE
 757/336-6577

WILDLIFE REFUGE:

 HUN#
 Name
 Contact
 Phone

 147
 CHINCOTEAGUE ISLAND NWR
 U.S. FISH AND WILDLIFE SERVICE
 757/336-6122