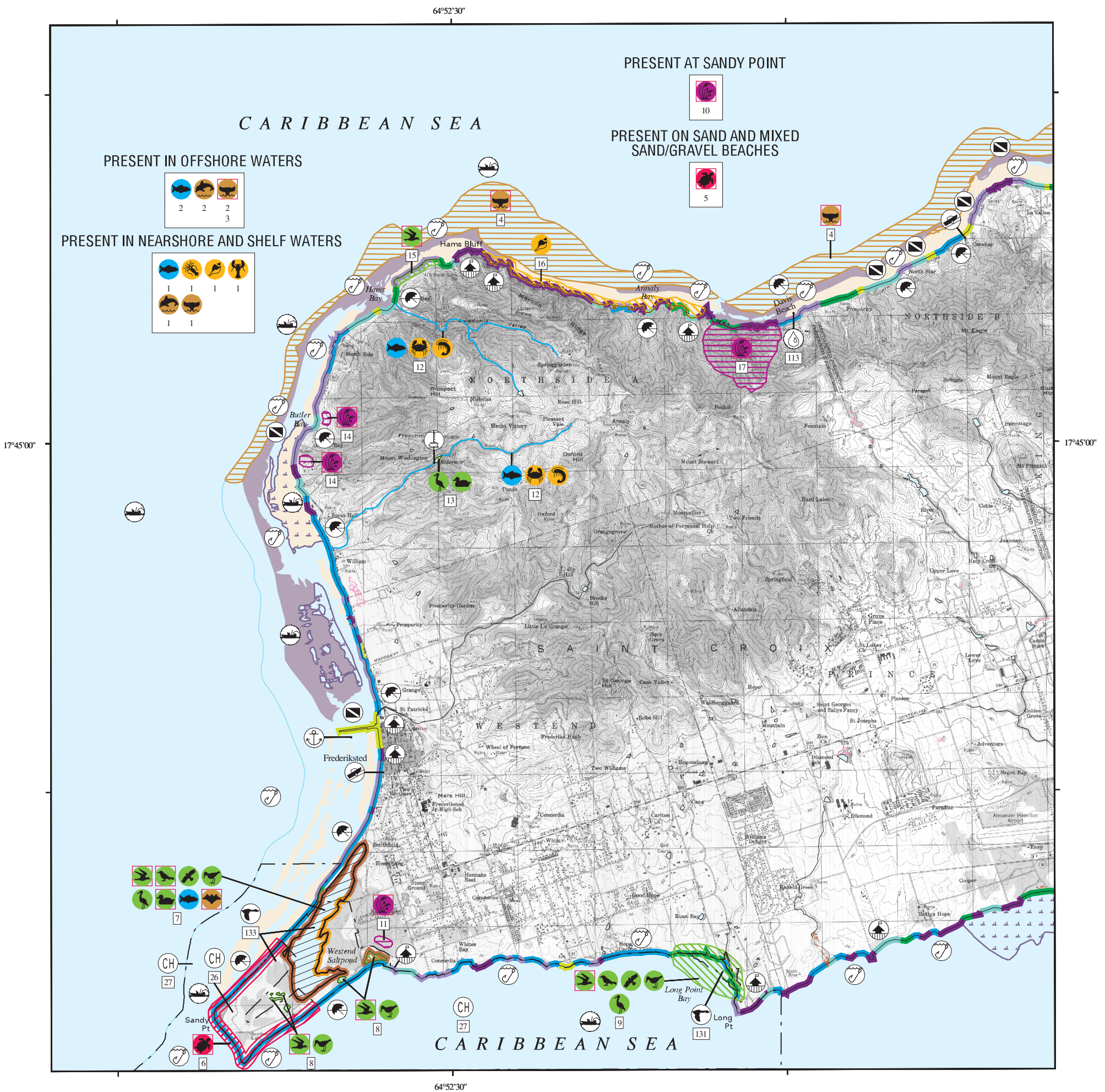
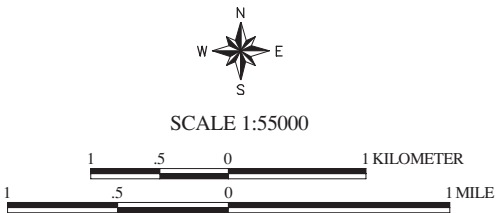


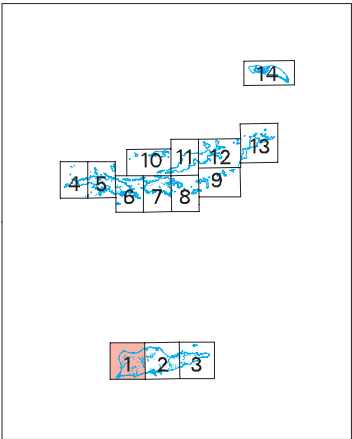
ENVIRONMENTAL SENSITIVITY INDEX MAP



- SHORELINE HABITATS (ESI)
- 1A EXPOSED ROCKY CLIFFS
 - 1B EXPOSED, SOLID MAN-MADE STRUCTURES
 - 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK
 - 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
 - 4 COARSE-GRAINED SAND BEACHES
 - 5 MIXED SAND AND GRAVEL BEACHES
 - 6A GRAVEL BEACHES
 - 6B RIPRAP
 - 7 EXPOSED TIDAL FLATS
 - 8A SHELTERED ROCKY SHORES
 - 8B SHELTERED, SOLID MAN-MADE STRUCTURES
 - 9A SHELTERED TIDAL FLATS
 - 9B SHELTERED VEGETATED LOW BANKS
 - 10D MANGROVES
 - SALT- AND BRACKISH-WATER MARSHES
 - FRESHWATER MARSHES
 - FRESHWATER SWAMPS
 - FRESHWATER SCRUB/SHRUB



Not For Navigation
Published: July 2000
Published at Seattle, Washington
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division



VIRGIN ISLANDS - ESIMAP 1

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting |
|------|-------------------------|-----|-----|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| 7 | Black-necked stilt | | | | | | | X | X | X | X | X | X | X | X | | APR-OCT |
| | Brown booby | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Greater flamingo | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Least grebe | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Least tern | S | E | | | | | X | X | X | X | X | | | | | MAY-AUG |
| | Magnificent frigatebird | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Neotropical migrants | | | | X | X | X | X | | | | | X | X | X | | - |
| | Peregrine falcon | | | | X | X | X | X | X | | | | X | X | X | | - |
| | Shorebirds | | | | X | X | X | X | | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-JUL |
| | White-crowned pigeon | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 8 | Black-necked stilt | | | | | | X | X | X | X | X | X | X | | | | APR-OCT |
| | Least tern | S | E | | | | | X | X | X | X | X | | | | | MAY-AUG |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 9 | Black-necked stilt | | | POTENTIAL | | | X | X | X | X | X | X | X | X | | | APR-OCT |
| | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | POTENTIAL | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Least tern | S | E | POTENTIAL | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Neotropical migrants | | | POTENTIAL | X | X | X | X | | | | | X | X | X | | - |
| | Peregrine falcon | | | | X | X | X | X | | | | | X | X | X | | - |
| | Shorebirds | | | POTENTIAL | X | X | X | X | X | | | X | X | X | X | X | - |
| | Terns | | | POTENTIAL | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | POTENTIAL | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wilson's plover | | | POTENTIAL | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 13 | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Pied-billed grebe | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Sora | | | | X | X | X | X | | | | | X | X | X | | - |
| 15 | Brown pelican | S/F | E/E | POTENTIAL | X | X | X | X | X | X | X | X | X | X | X | X | AUG-FEB |
| | Magnificent frigatebird | | | POTENTIAL | X | X | X | X | X | X | X | X | X | X | X | X | OCT-MAY |

FISH:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawning | Eggs | Larvae | Juveniles | Adults |
|------|--------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|--------------------|--------------------|-----------|---------|
| 1 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 2 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 7 | Mangrove molly | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| 12 | Native stream fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-MAY AUG-NOV | APR-MAY AUG-NOV | APR-MAY AUG-NOV | JAN-DEC | JAN-DEC |

PLANT:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | Psychilis macconelliae | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 11 | Buxus vahlii | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 14 | Malpighia infestissima | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 17 | Erythrina eggersii | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate | Eggs | Larvae | Juveniles | Adults |
|------|------------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|--------------------|--------------------|-----------|---------|
| 1 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | - | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | APR-OCT | JAN-DEC | JAN-DEC |
| 12 | Freshwater crab | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-MAY AUG-NOV | APR-MAY AUG-NOV | - | JAN-DEC | JAN-DEC |
| | Native stream shrimp | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-MAY AUG-NOV | APR-MAY AUG-NOV | APR-MAY AUG-NOV | JAN-DEC | JAN-DEC |
| 16 | West Indian topsnail (whelk) | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|----------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 2 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 3 | Sperm whale | S/F | E/E | LOW | X | X | X | X | X | X | | X | X | X | X | | - | - |
| 4 | Humpback whale | S/F | E/E | MODERATE | X | X | X | X | X | | | | X | X | | | NOV-MAY | NOV-MAY |

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|------------------------|-----|-----|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 5 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 6 | Green sea turtle | S/F | E/T | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Leatherback sea turtle | S/F | E/E | VERY HIGH | | | X | X | X | X | X | X | | | | | MAR-JUL | MAY-SEP | MAY-SEP | MAR-AUG |

TERRESTRIAL MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|---------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |

HUMAN USE RESOURCES:

CRITICAL HABITAT:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|------------------------|---------------|------------------------|--------------|
| 26 | LEATHERBACK TURTLE DCH | USFWS | CARIBBEAN FIELD OFFICE | 787/851-7297 |
| 27 | LEATHERBACK TURTLE DCH | NMFS | MAYAGUEZ FIELD OFFICE | 787/831-3426 |

WATER INTAKE:

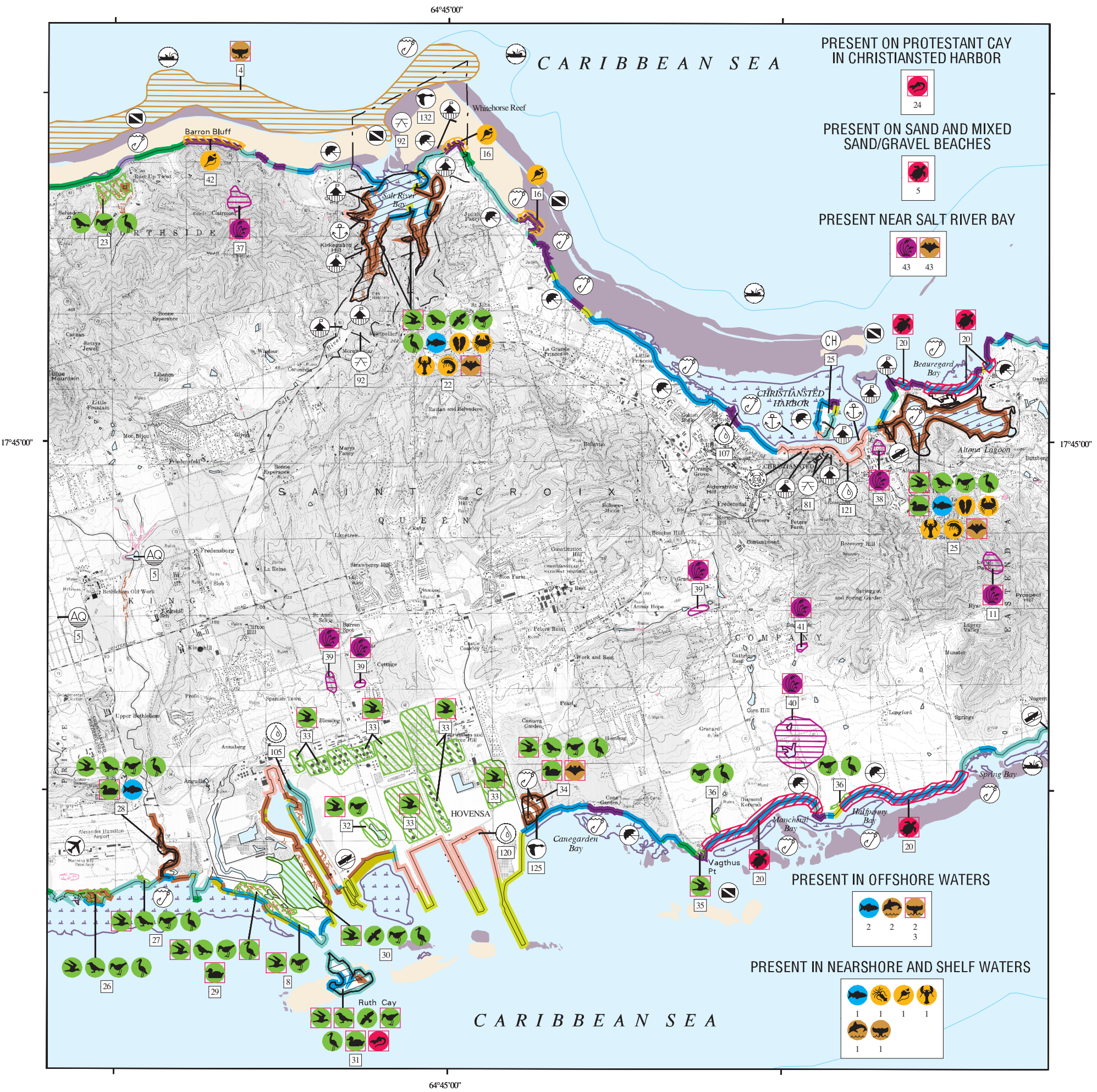
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--------------------|------------------|---------|-------|
| 113 | DESALINATION PLANT | CARAMBOLA RESORT | | |

WILDLIFE REFUGE:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--------------------------------------|---------------|----------------|--------------|
| 131 | LONG POINT PRESERVE | TNC | | |
| 133 | SANDY POINT NATIONAL WILDLIFE REFUGE | USFWS | REFUGE MANAGER | 340/773-4554 |

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.

ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

- 1A EXPOSED ROCKY CLIFFS
- 1B EXPOSED, SOLID MAN-MADE STRUCTURES
- 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK
- 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
- 4 COARSE-GRAINED SAND BEACHES
- 5 MIXED SAND AND GRAVEL BEACHES
- 6A GRAVEL BEACHES
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED ROCKY SHORES
- 8B SHELTERED, SOLID MAN-MADE STRUCTURES
- 9A SHELTERED TIDAL FLATS
- 9B SHELTERED VEGETATED LOW BANKS
- 10D MANGROVES
- SALT- AND BRACKISH-WATER MARSHES
- FRESHWATER MARSHES
- FRESHWATER SWAMPS
- FRESHWATER SCRUB/SHRUB

Not For Navigation
Published: July 2000

Published at Seattle, Washington
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division

SCALE 1:55000

1 0.5 0 0.5 1 KILOMETER

1 0.5 0 0.5 1 MILE

VIRGIN ISLANDS - ESIMAP 2

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| 8 | Black-necked stilt | | | | | | X | X | X | X | X | X | X | X | | | APR-OCT |
| | Least tern | S | | E | | | | X | X | X | X | X | | | | | MAY-AUG |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 22 | American oystercatcher | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Brown pelican | S/F | | E/E | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Least tern | S | | E | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Neotropical migrants | | | | X | X | X | X | | | | | | X | X | X | - |
| | Osprey | | | | X | X | X | X | | | | X | X | X | X | | - |
| | Shorebirds | | | | X | X | X | X | X | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | | APR-JUL |
| 23 | Neotropical migrants | | | | X | X | X | X | | | | | X | X | X | | - |
| | Northern waterthrush | | | | X | X | X | X | | | | X | X | X | X | | - |
| | Shorebirds | | | | X | X | X | X | X | | X | X | X | X | X | | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| 25 | Blue-winged teal | | | | X | X | X | X | | | | | X | X | X | | - |
| | Brown pelican | S/F | | E/E | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Least tern | S | | E | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Magnificent frigatebird | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Neotropical migrants | | | | X | X | X | X | | | | | X | X | X | | - |
| | Royal tern | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Shorebirds | | | | X | X | X | X | X | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | White-cheeked pintail | S | | E | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | | MAR-JUL |
| 26 | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Neotropical migrants | | | | X | X | X | X | | | | | X | X | X | | - |
| | Shorebirds | | | | X | X | X | X | X | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| 27 | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Least tern | S | | E | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Neotropical migrants | | | | X | X | X | X | | | | | X | X | X | | - |
| | Shorebirds | | | | X | X | X | X | X | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| 28 | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Neotropical migrants | | | | X | X | X | X | | | | | X | X | X | | - |
| | Shorebirds | | | | X | X | X | X | X | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | | APR-JUL |
| | White-cheeked pintail | S | | E | X | X | X | X | X | X | X | X | X | X | X | | - |
| 29 | Brown pelican | S/F | | E/E | X | X | X | X | X | X | X | X | X | X | X | | AUG-FEB |
| | Cattle egret | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Great egret | S | | E | X | X | X | X | X | X | X | X | X | X | X | | APR-JUN |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Little blue heron | | | | X | X | X | X | X | X | X | X | X | X | X | | APR-JUL |
| | Neotropical migrants | | | | X | X | X | X | | | | | X | X | X | | - |
| | Shorebirds | | | | X | X | X | X | | | X | X | X | X | X | | - |
| | Snowy egret | S | | E | X | X | X | X | X | X | X | X | X | X | X | | APR-JUL OCT-OCT |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | White-cheeked pintail | S | | E | X | X | X | X | X | X | X | X | X | X | X | | JAN-DEC |
| 30 | Brown pelican | S/F | | E/E | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Laughing gull | | | | X | X | X | X | X | | | | | | | | - |
| | Least tern | S | | E | | | X | X | X | X | X | | | | | | - |
| | Osprey | | | | X | X | X | X | | | | X | X | X | X | | - |
| | Shorebirds | | | | X | X | X | X | X | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| 31 | American oystercatcher | | | | X | X | X | X | X | X | X | X | X | X | X | | MAY-AUG |
| | Brown booby | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Common ground-dove | | | | X | X | X | X | X | X | X | X | X | X | X | | JAN-DEC |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Least tern | S | | E | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Osprey | | | | X | X | X | X | | | | X | X | X | X | | - |
| | Peregrine falcon | | | | X | X | X | X | | | | X | X | X | | | - |
| | Scaly-naped pigeon | | | | X | X | X | X | X | X | X | X | X | X | X | | JAN-DEC |
| | Shorebirds | | | | X | X | X | X | X | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | White-cheeked pintail | S | | E | X | X | X | X | X | X | X | X | X | X | X | | JAN-DEC |
| | White-crowned pigeon | S | | E | X | X | X | X | X | X | X | X | X | X | X | | MAR-SEP |
| | Willet | S | | E | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Zenaida dove | | | | X | X | X | X | X | X | X | X | X | X | X | | APR-JUN |
| 32 | Least tern | S | | E | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Shorebirds | | | | X | X | X | X | X | | X | X | X | X | X | | - |
| 33 | Least tern | S | | E | | | X | X | X | X | X | | | | | | MAY-AUG |
| 34 | Blue-winged teal | | | | X | X | X | X | | | | | X | X | X | | - |
| | Brown pelican | S/F | | E/E | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Least tern | S | | E | | | X | X | X | X | X | | | | | | - |
| | Neotropical migrants | | | | X | X | X | X | | | | | X | X | X | | - |
| | Shorebirds | | | | X | X | X | X | X | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | White-cheeked pintail | S | | E | X | X | X | X | X | X | X | X | X | X | X | | - |
| 35 | White-tailed tropicbird | S | | E | | | X | X | X | X | X | | | | | | MAR-AUG |
| 36 | Shorebirds | | | | X | X | X | X | X | | X | X | X | X | X | | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | | - |

FISH:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawning | Eggs | Larvae | Juveniles | Adults |
|------|-----------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|----------|---------|---------|-----------|---------|
| 1 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 2 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 22 | Butterfly fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Common snook | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Damselfish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Great barracuda | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Grunts | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Jacks | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Mojarras | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Mullet | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Snappers | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Tarpon | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| 25 | Common snook | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Great barracuda | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Grunts | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Jacks | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Mojarras | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Mullet | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Snappers | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| 28 | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |

VIRGIN ISLANDS - ESIMAP 2 cont.

BIOLOGICAL RESOURCES: cont.

PLANT:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | Buxus vahlii | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 37 | Peperomia myrtifolia | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 38 | Agave eggersiana | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 39 | Guajacum officinale | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 40 | Catesbaea melanocarpa | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Malpighia infestissima | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 41 | Maytenus cymosa | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 43 | Agave eggersiana | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Malpighia infestissima | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Mammillaria nivosa | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate | Eggs | Larvae | Juveniles | Adults |
|------|------------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|------------|---------|---------|-----------|---------|
| 1 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | - | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | APR-OCT | JAN-DEC | JAN-DEC |
| 16 | West Indian topsnail (whelk) | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| 22 | Bivalves | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Blue crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | MAR-OCT | JAN-DEC | - |
| | Southern pink shrimp | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| 25 | Bivalves | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Blue crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | MAR-OCT | JAN-DEC | - |
| | Southern pink shrimp | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| 42 | West Indian topsnail (whelk) | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|----------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 2 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 3 | Sperm whale | S/F | E/E | LOW | X | X | X | X | X | X | | | X | X | X | X | - | - |
| 4 | Humpback whale | S/F | E/E | MODERATE | X | X | X | X | X | | | | | X | X | | NOV-MAY | NOV-MAY |

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 5 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 20 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Leatherback sea turtle | S/F | E/E | | | X | X | X | X | X | X | | | | | | MAR-JUL | MAY-SEP | MAY-SEP | MAR-AUG |
| 24 | St. Croix ground lizard | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | JAN-DEC |
| 31 | St. Croix ground lizard | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | JAN-DEC |

TERRESTRIAL MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|---------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 25 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 34 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 43 | Cave bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Red fruit bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |

HUMAN USE RESOURCES:

AQUACULTURE:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|----------------------|------------------------|--------------|--------------|
| 5 | AQUACULTURE FACILITY | UVI COOP. EXT. SERVICE | JAMES RAKOCY | 340/692-4080 |

CRITICAL HABITAT:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|-------------------|---------------|------------------------|--------------|
| 25 | GROUND LIZARD DCH | USFWS | CARIBBEAN FIELD OFFICE | 787/851-7297 |

NATIONAL PARK:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|---|---------------|------------------|--------------|
| 81 | CHRISTIANSIED NHS | NPS | DISTRICT MANAGER | 340/773-1460 |
| 92 | SALT RIVER BAY NHP AND ECOLOGICAL PRES. | NPS | DISTRICT MANAGER | 340/773-1460 |

WATER INTAKE:

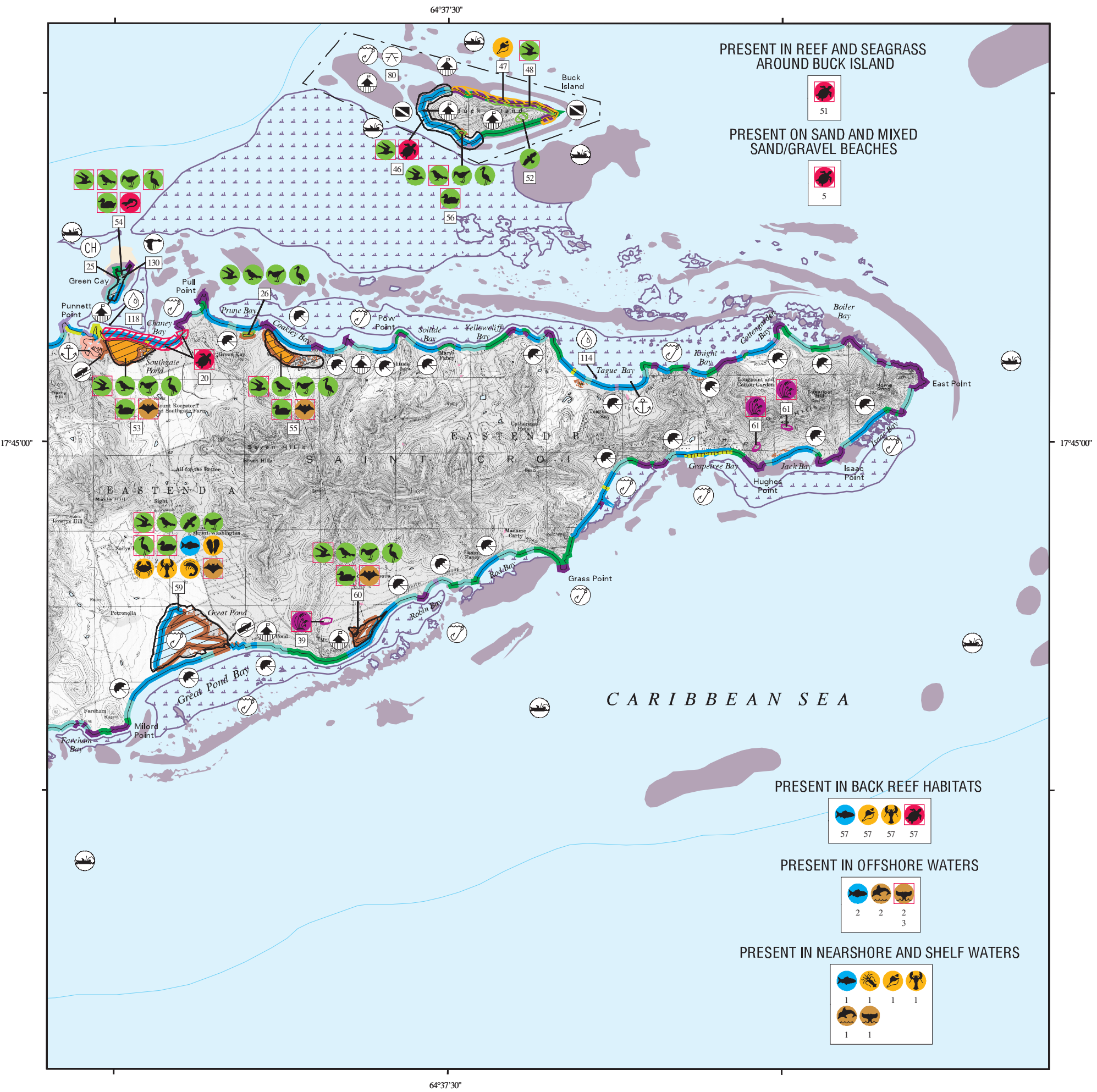
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|------------------------------------|-------------------------|--------------------------------|--------------|
| 105 | ALUMINA PLANT INTAKE | ST. CROIX ALUMINA CORP. | ENV., HEALTH, & SAFETY MANAGER | 340/772-7648 |
| 107 | DESALINATION AND INDUSTRIAL PLANTS | WAPA | | 340/773-2250 |
| 120 | REFINERY INTAKE | HOVENSA | ENV. STAFF ENGINEER | 340/692-3254 |
| 121 | SEAWATER INTAKE | DEPT. OF PUBLIC WORKS | | |

WILDLIFE REFUGE:

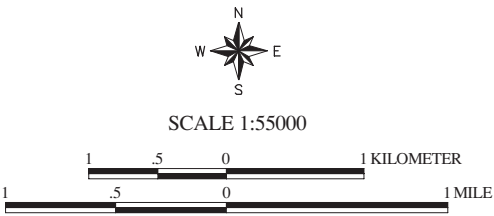
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|---|---------------|-------------------------------|--------------|
| 125 | BILLY FRENCH PONDS WETLAND RESERVE | UVI | SEA GRANT MARINE ADVISER | 340/778-1112 |
| 132 | SALT RIVER BAY MAR. RES. & WILD. SANCT. | USVI DPNR | DIVISION OF FISH AND WILDLIFE | 340/774-3320 |

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.

ENVIRONMENTAL SENSITIVITY INDEX MAP

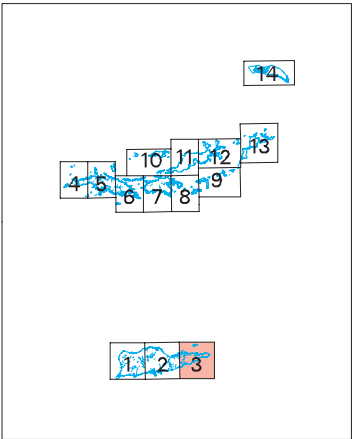


- SHORELINE HABITATS (ESI)
- 1A EXPOSED ROCKY CLIFFS
 - 1B EXPOSED, SOLID MAN-MADE STRUCTURES
 - 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK
 - 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
 - 4 COARSE-GRAINED SAND BEACHES
 - 5 MIXED SAND AND GRAVEL BEACHES
 - 6A GRAVEL BEACHES
 - 6B RIPRAP
 - 7 EXPOSED TIDAL FLATS
 - 8A SHELTERED ROCKY SHORES
 - 8B SHELTERED, SOLID MAN-MADE STRUCTURES
 - 9A SHELTERED TIDAL FLATS
 - 9B SHELTERED VEGETATED LOW BANKS
 - 10D MANGROVES
 - SALT- AND BRACKISH-WATER MARSHES
 - FRESHWATER MARSHES
 - FRESHWATER SWAMPS
 - FRESHWATER SCRUB/SHRUB



Not For Navigation
Published: July 2000

Published at Seattle, Washington
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division



VIRGIN ISLANDS - ESIMAP 3 cont.

BIOLOGICAL RESOURCES: cont.

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate | Eggs | Larvae | Juveniles | Adults |
|------|------------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|------------|---------|---------|-----------|---------|
| 1 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | - | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | APR-OCT | JAN-DEC | JAN-DEC |
| 47 | West Indian topsnail (whelk) | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| 57 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| 59 | Bivalves | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Blue crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | MAR-OCT | JAN-DEC | - |
| | Southern pink shrimp | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|-------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|--------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 2 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 3 | Sperm whale | S/F | E/E | LOW | X | X | X | X | X | X | | X | X | X | X | X | - | - |

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 5 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 20 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Leatherback sea turtle | S/F | E/E | | | X | X | X | X | X | X | | | | | | MAR-JUL | MAY-SEP | MAY-SEP | MAR-AUG |
| 46 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Leatherback sea turtle | S/F | E/E | | | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL | MAY-NOV | MAY-NOV | MAR-AUG |
| 51 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | JAN-DEC |
| 54 | St. Croix ground lizard | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | JAN-DEC |
| 57 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |

TERRESTRIAL MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|---------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 53 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 55 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 59 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 60 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |

HUMAN USE RESOURCES:

CRITICAL HABITAT:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|-------------------|---------------|------------------------|--------------|
| 25 | GROUND LIZARD DCH | USFWS | CARIBBEAN FIELD OFFICE | 787/851-7297 |

NATIONAL PARK:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|------------------------------------|---------------|--------------------------------|--------------|
| 80 | BUCK ISLAND REEF NATIONAL MONUMENT | NPS | RESOURCE MANAGEMENT SPECIALIST | 340/773-1460 |

WATER INTAKE:

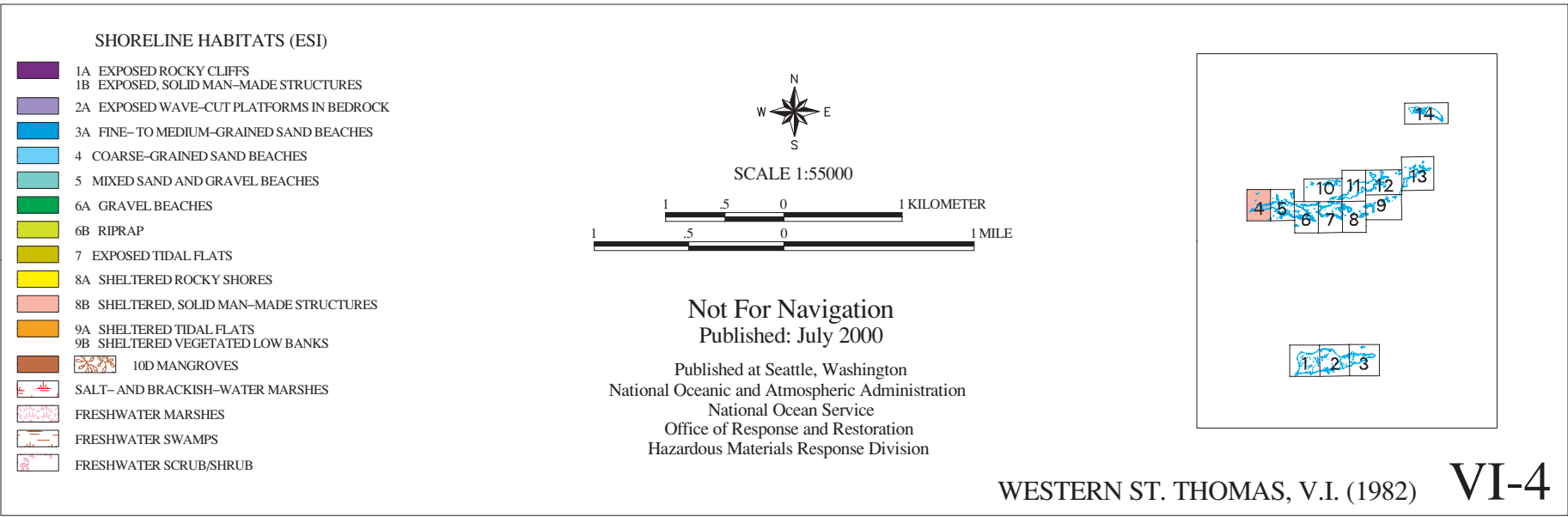
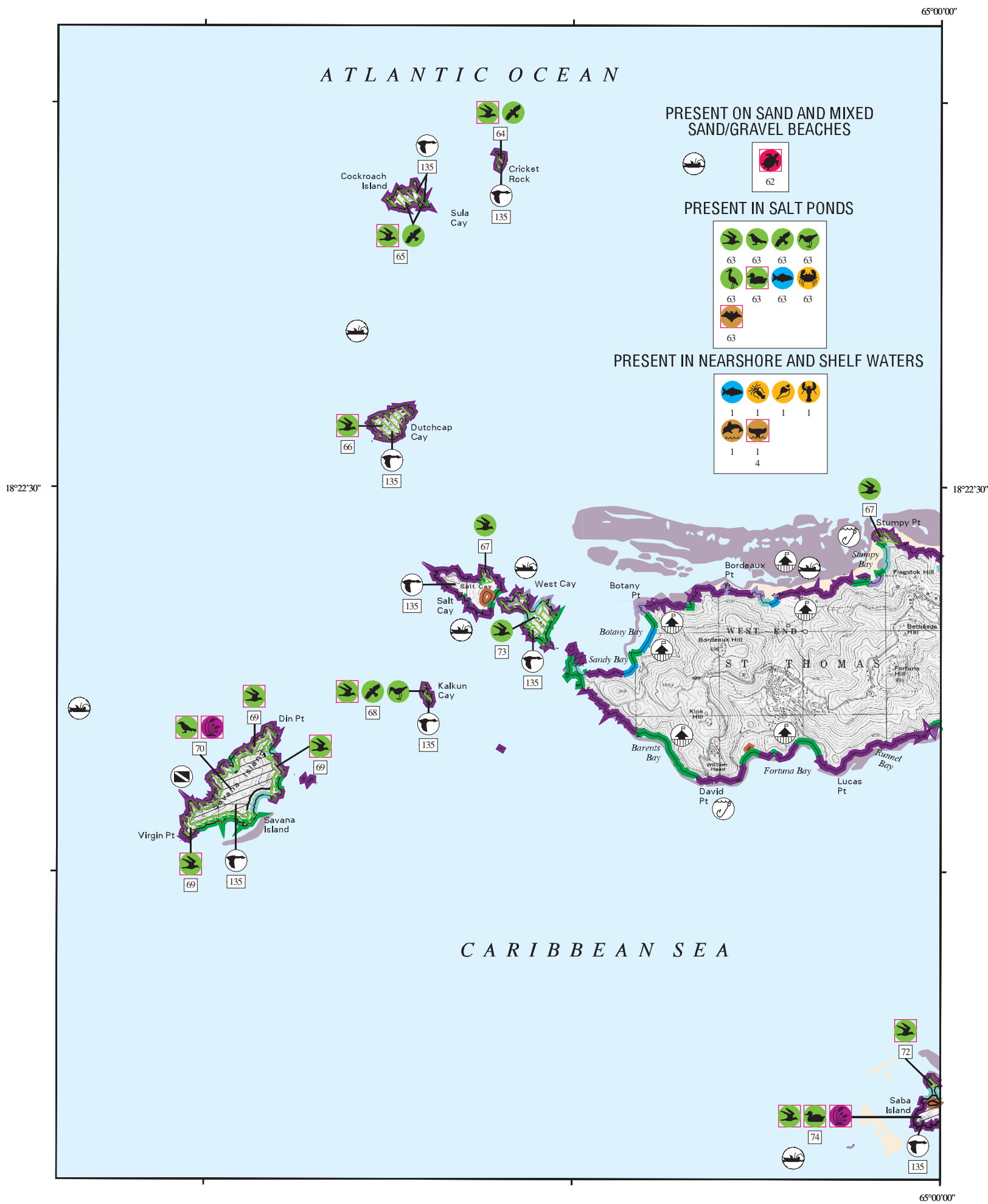
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--------------------|------------------|---------|-------|
| 114 | DESALINATION PLANT | THE REEF CONDO | | |
| 118 | MARINA INTAKE | GREEN CAY MARINA | | |

WILDLIFE REFUGE:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|------------------------------------|---------------|----------------|--------------|
| 130 | GREEN CAY NATIONAL WILDLIFE REFUGE | USFWS | REFUGE MANAGER | 340/773-4554 |

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.

ENVIRONMENTAL SENSITIVITY INDEX MAP



VIRGIN ISLANDS - ESIMAP 4

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting |
|------|---------------------------|-----|-----|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| 63 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Belted kingfisher | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Black-necked stilt | | | | | | X | X | X | X | X | X | X | | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | X | X | X | | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Magnificent frigatebird | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Osprey | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Passerine birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 64 | Bridled tern | | | 30-50 | | | X | X | X | X | | | | | | | MAY-AUG |
| | Brown booby | | | <5 | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Brown noddy | | | 20 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Masked (blue-faced) booby | | | POTENTIAL | X | X | X | X | X | X | X | X | X | X | X | X | OCT-MAY |
| | Peregrine falcon | | | | X | X | X | X | | | | | | X | X | X | - |
| | Red-billed tropicbird | | | 5-15 | X | X | X | X | X | | | | | X | X | X | OCT-JUN |
| | Roseate tern | S/F | E/T | | | | X | X | X | X | X | X | | | | | MAY-AUG |
| 65 | Audubon's shearwater | S | E | 5-25 | X | X | X | X | X | | | | | | | X | DEC-MAY |
| | Bridled tern | | | 10-30 | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Brown booby | | | 150-200 | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Brown noddy | | | 25-50 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Laughing gull | | | | | | X | X | X | X | X | | | | | | JUN-AUG |
| | Masked (blue-faced) booby | | | 40-60 | X | X | X | X | X | X | X | X | X | X | X | X | OCT-MAY |
| | Peregrine falcon | | | | X | X | X | X | | | | | | X | X | X | - |
| | Red-billed tropicbird | | | 100-125 | X | X | X | X | X | | | | | X | X | X | OCT-JUN |
| | White-tailed tropicbird | S | E | | | X | X | X | X | X | X | | | | | | MAR-AUG |
| 66 | Bridled tern | | | | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Brown booby | | | 150-200 | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Brown noddy | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Brown pelican | S/F | E/E | 100-200 | X | X | X | X | X | X | X | X | X | X | X | X | AUG-FEB |
| | Red-billed tropicbird | | | 10-20 | X | X | X | X | X | X | | | | X | X | X | OCT-JUN |
| | Red-footed booby | | | 125-175 | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT |
| | White-tailed tropicbird | S | E | | | X | X | X | X | X | | | | | | | MAR-AUG |
| 67 | Seabirds | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 68 | American oystercatcher | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Bridled tern | | | 10-20 | | | X | X | X | X | | | | | | | MAY-AUG |
| | Brown booby | | | 60-90 | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Brown noddy | | | 10-20 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Peregrine falcon | | | | X | X | X | X | | | | | | X | X | X | - |
| | Red-billed tropicbird | | | 5-10 | X | X | X | X | X | | | | | X | X | X | OCT-JUN |
| | Roseate tern | S/F | E/T | 50-350 | | | X | X | X | X | X | X | | | | | MAY-AUG |
| 69 | Red-billed tropicbird | | | HIGH | X | X | X | X | X | | | | | X | X | X | OCT-JUN |
| | White-tailed tropicbird | S | E | LOW | | X | X | X | X | X | X | | | | | | MAR-AUG |
| 70 | Scaly-naped pigeon | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | White-crowned pigeon | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-SEP |
| 72 | Bridled tern | | | 25-50 | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Brown noddy | | | 25-50 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Laughing gull | | | 200-400 | | | X | X | X | X | X | X | | | | | JUN-AUG |
| | Roseate tern | S/F | E/T | | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Royal tern | | | 20-80 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Sandwich tern | | | 50-250 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Sooty tern | | | 50-200 | | | X | X | X | X | X | | | | | | APR-AUG |
| 73 | Red-billed tropicbird | | | | X | X | X | X | X | | | | | X | X | X | OCT-JUN |
| 74 | Audubon's shearwater | S | E | <20 | X | X | X | X | | | | | | | X | | DEC-MAY |
| | Bridled tern | | | 50-200 | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Brown noddy | | | 200-400 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Laughing gull | | | 100-200 | | | X | X | X | X | X | X | | | | | JUN-AUG |
| | Roseate tern | S/F | E/T | 20-400 | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Sooty tern | | | 30-40000 | | | X | X | X | X | X | | | | | | APR-AUG |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |

FISH:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawning Eggs | Larvae | Juveniles | Adults |
|------|-----------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------|-----------|---------|
| 1 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 63 | Common snook | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Great barracuda | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Mullet | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Tarpon | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |

PLANT:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|-----------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 70 | Malpighia woodburyana | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 74 | Mammillaria nivosa | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate Eggs | Larvae | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------|-----------|---------|
| 1 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | JAN-DEC | JAN-DEC |
| 63 | Land crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-AUG | JUL-SEP | JAN-DEC |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|----------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 4 | Humpback whale | S/F | E/E | MODERATE | X | X | X | X | | | | | | X | X | | NOV-MAY | NOV-MAY |

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|----------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 62 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |

TERRESTRIAL MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|---------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |

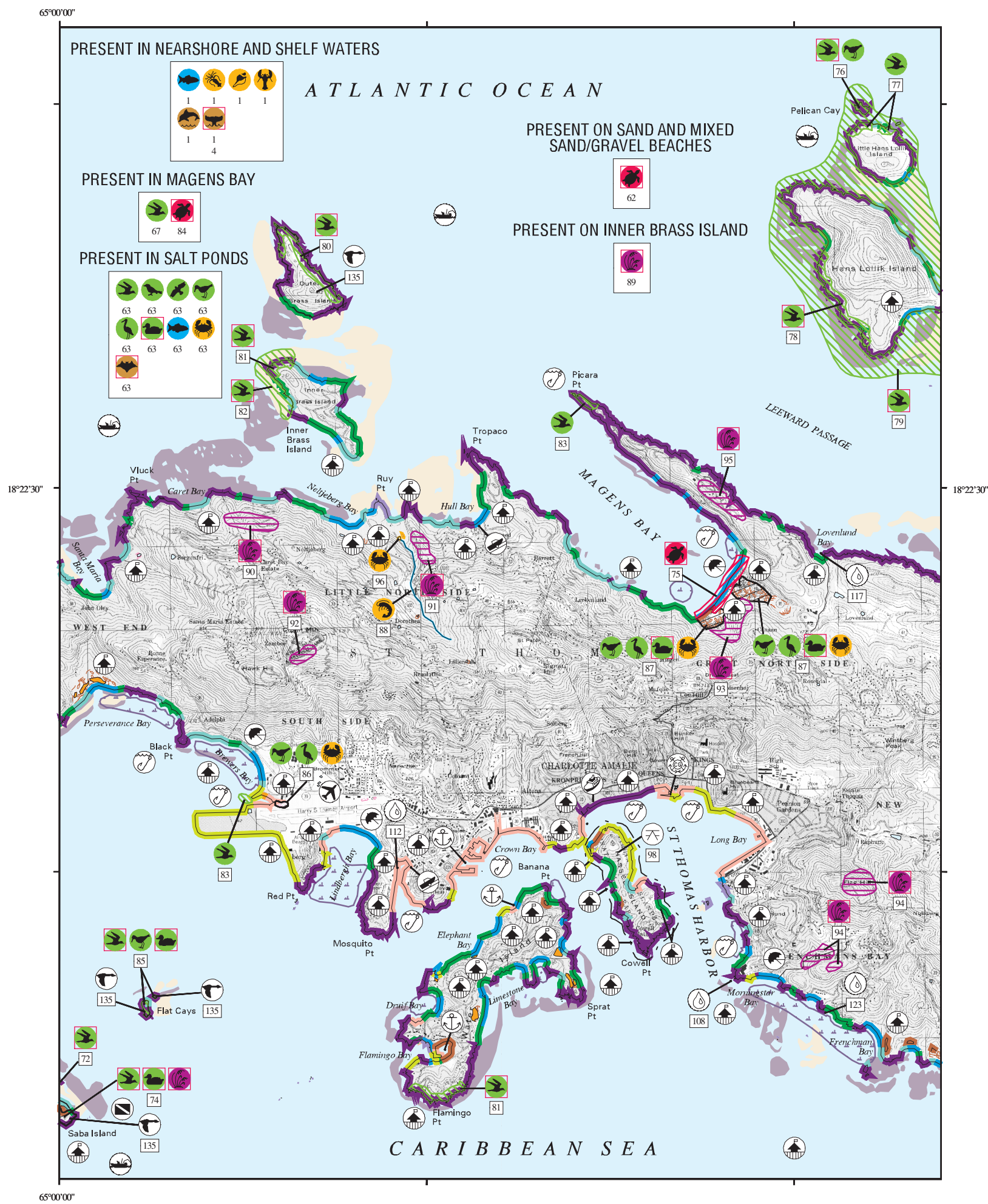
HUMAN USE RESOURCES:

WILDLIFE REFUGE:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|-------------------------|---------------|-------------------------------|--------------|
| 135 | USVI WILDLIFE SANCTUARY | USVI DPNR | DIVISION OF FISH AND WILDLIFE | 340/775-6762 |

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.

ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

| | |
|-----|---------------------------------------|
| 1A | EXPOSED ROCKY CLIFFS |
| 1B | EXPOSED, SOLID MAN-MADE STRUCTURES |
| 2A | EXPOSED WAVE-CUT PLATFORMS IN BEDROCK |
| 3A | FINE- TO MEDIUM-GRAINED SAND BEACHES |
| 4 | COARSE-GRAINED SAND BEACHES |
| 5 | MIXED SAND AND GRAVEL BEACHES |
| 6A | GRAVEL BEACHES |
| 6B | RIPRAP |
| 7 | EXPOSED TIDAL FLATS |
| 8A | SHELTERED ROCKY SHORES |
| 8B | SHELTERED, SOLID MAN-MADE STRUCTURES |
| 9A | SHELTERED TIDAL FLATS |
| 9B | SHELTERED VEGETATED LOW BANKS |
| 10D | MANGROVES |
| | SALT- AND BRACKISH-WATER MARSHES |
| | FRESHWATER MARSHES |
| | FRESHWATER SWAMPS |
| | FRESHWATER SCRUB/SHRUB |

Not For Navigation
Published: July 2000

Published at Seattle, Washington
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division

SCALE 1:55000

1 0.5 0 0.5 1 KILOMETER

1 0.5 0 0.5 1 MILE

14

10 11 12 13

4 5 6 7 8 9

1 2 3

VIRGIN ISLANDS - ESIMAP 5

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting |
|------|-------------------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| 63 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Belted kingfisher | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Black-necked stilt | | | | | | X | X | X | X | X | X | X | X | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | X | X | X | | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Magnificent frigatebird | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Osprey | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Passerine birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 67 | Seabirds | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 72 | Bridled tern | | | 25-50 | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Brown noddy | | | 25-50 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Laughing gull | | | 200-400 | | | X | X | X | X | X | X | | | | | JUN-AUG |
| | Roseate tern | S/F | E/T | | | | X | X | X | X | X | X | | | | | MAY-AUG |
| | Royal tern | | | 20-80 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Sandwich tern | | | 50-250 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Sooty tern | | | 50-200 | | | X | X | X | X | X | | | | | | APR-AUG |
| 74 | Audubon's shearwater | S | E | <20 | X | X | X | X | X | | | | | | | X | DEC-MAY |
| | Bridled tern | | | 50-200 | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Brown noddy | | | 200-400 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Laughing gull | | | 100-200 | | | X | X | X | X | X | X | | | | | JUN-AUG |
| | Roseate tern | S/F | E/T | 20-400 | | | X | X | X | X | X | X | | | | | MAY-AUG |
| | Sooty tern | | | 30-40000 | | | X | X | X | X | | | | | | | APR-AUG |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| 76 | American oystercatcher | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Laughing gull | | | | | | X | X | X | X | X | X | | | | | JUN-AUG |
| | Roseate tern | S/F | E/T | 100-400 | | | X | X | X | X | X | X | | | | | MAY-AUG |
| | Royal tern | | | 1 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Sandwich tern | | | 20-300 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| 77 | Laughing gull | | | 100-300 | | | X | X | X | X | X | X | | | | | JUN-AUG |
| | Sandwich tern | | | 200-700 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| 78 | Brown pelican | S/F | E/E | 3-8 | X | X | X | X | X | X | X | X | X | X | X | X | AUG-FEB |
| | Red-billed tropicbird | | | 15-30 | X | X | X | X | X | | | | X | X | X | X | OCT-JUN |
| | White-tailed tropicbird | S | E | 5 | | | X | X | X | X | X | | | | | | MAR-AUG |
| 79 | Brown pelican | S/F | E/E | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 80 | Brown booby | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Laughing gull | | | | | | X | X | X | X | X | X | | | | | - |
| | Red-billed tropicbird | | | | X | X | X | X | X | X | | | X | X | X | X | OCT-JUN |
| | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-tailed tropicbird | S | E | | | | X | X | X | X | X | X | | | | | MAR-AUG |
| 81 | Red-billed tropicbird | | | | X | X | X | X | X | X | | | X | X | X | X | OCT-JUN |
| | White-tailed tropicbird | S | E | | | | X | X | X | X | X | | | | | | MAR-AUG |
| 82 | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 83 | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 85 | American oystercatcher | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Bridled tern | | | 30-60 | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Brown noddy | | | 25-50 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Laughing gull | | | | | | X | X | X | X | X | | | | | | JUN-AUG |
| | Red-billed tropicbird | | | 3-5 | X | X | X | X | X | | | | X | X | X | X | OCT-JUN |
| | Roseate tern | S/F | E/T | 20-200 | | | X | X | X | X | X | X | | | | | MAY-AUG |
| | Royal tern | | | 1-20 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Sandwich tern | | | 5-50 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Sooty tern | | | 200-400 | | | X | X | X | X | X | | | | | | APR-AUG |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| 86 | Shorebirds | | | HIGH | X | X | X | X | X | | | | X | X | X | X | - |
| | Wading birds | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 87 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Waterfowl | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |

FISH:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawning Eggs | Larvae | Juveniles | Adults |
|------|-----------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------|-----------|---------|
| 1 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 63 | Common snook | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Great barracuda | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Mullet | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Tarpon | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |

PLANT:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|--------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 74 | Mammillaria nivosa | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 89 | Malpighia woodburyana | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 90 | Brassavola cucullata | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 91 | Psychilis macconelliae | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Tillandsia lineatispica | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 92 | Schoepfia schreberi | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 93 | Manilkara bidentata | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 94 | Zanthoxylum thomsonianum | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 95 | Tillandsia lineatispica | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate Eggs | Larvae | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------|-----------|---------|
| 1 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | JAN-DEC | JAN-DEC |
| 63 | Land crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-AUG | JAN-DEC | JAN-DEC |
| 86 | Land crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-AUG | JAN-DEC | JAN-DEC |
| 87 | Land crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-AUG | JAN-DEC | JAN-DEC |
| 98 | Native stream shrimp | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-MAY | APR-MAY | JAN-DEC | JAN-DEC |
| | | | | | | | | | | | | | | | | | AUG-NOV | AUG-NOV | | |
| 96 | Land crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-AUG | JAN-DEC | JAN-DEC |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|----------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 4 | Humpback whale | S/F | E/E | MODERATE | X | X | X | X | | | | | | X | X | X | NOV-MAY | NOV-MAY |

VIRGIN ISLANDS - ESIMAP 5 cont.

BIOLOGICAL RESOURCES: cont.

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 62 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 75 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Leatherback sea turtle | S/F | E/E | | | X | X | X | X | X | X | | | | | | MAR-JUL | MAY-SEP | MAY-SEP | MAR-AUG |
| 84 | Hawksbill sea turtle | S/F | E/E | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |

TERRESTRIAL MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|---------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |

HUMAN USE RESOURCES:

NATIONAL PARK:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|------------------------------|---------------|------------------------------|--------------|
| 98 | VIRGIN ISLANDS NATIONAL PARK | NPS | CHIEF OF RESOURCE MANAGEMENT | 340/693-8950 |

WATER INTAKE:

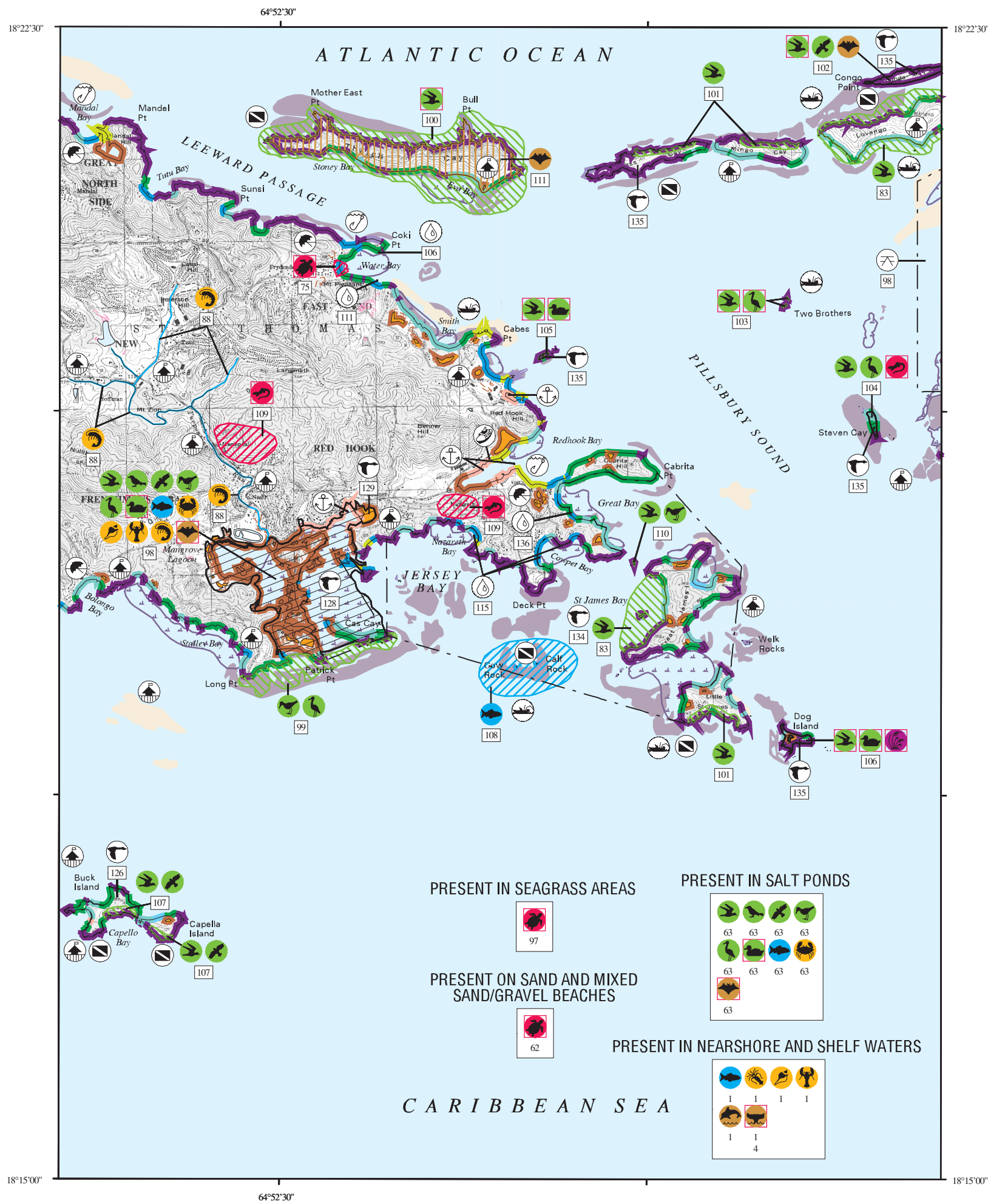
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--------------------|-----------------------|---------|--------------|
| 108 | DESALINATION PLANT | FRENCHMANS REEF HOTEL | | |
| 112 | DESALINATION PLANT | WAPA | | 340/774-3552 |
| 117 | MAHOGANY RUN | | | |
| 123 | WATER INTAKE | | | |

WILDLIFE REFUGE:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|-------------------------|---------------|-------------------------------|--------------|
| 135 | USVI WILDLIFE SANCTUARY | USVI DPNR | DIVISION OF FISH AND WILDLIFE | 340/775-6762 |

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.

ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

- 1A EXPOSED ROCKY CLIFFS
- 1B EXPOSED, SOLID MAN-MADE STRUCTURES
- 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK
- 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
- 4 COARSE-GRAINED SAND BEACHES
- 5 MIXED SAND AND GRAVEL BEACHES
- 6A GRAVEL BEACHES
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED ROCKY SHORES
- 8B SHELTERED, SOLID MAN-MADE STRUCTURES
- 9A SHELTERED TIDAL FLATS
- 9B SHELTERED VEGETATED LOW BANKS
- 10D MANGROVES
- SALT- AND BRACKISH-WATER MARSHES
- FRESHWATER MARSHES
- FRESHWATER SWAMPS
- FRESHWATER SCRUB/SHRUB

Not For Navigation
Published: July 2000

Published at Seattle, Washington
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division

SCALE 1:55000

1 0.5 0 0.5 1 KILOMETER

1 0.5 0 0.5 1 MILE

VI-6

VIRGIN ISLANDS - ESIMAP 6

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting |
|------|-------------------------|-----|-----|---------|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| 63 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Belted kingfisher | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Black-necked stilt | | | | | | X | X | X | X | X | X | X | X | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | X | X | X | | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Magnificent frigatebird | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Osprey | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Passerine birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 83 | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 98 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Belted kingfisher | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Black-necked stilt | | | | | | X | X | X | X | X | X | X | | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | X | X | X | | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Magnificent frigatebird | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Osprey | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Passerine birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 99 | Shorebirds | | | HIGH | X | X | X | X | | | | | X | X | X | X | - |
| | Wading birds | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 100 | Roseate tern | S/F | E/T | | | | X | X | X | X | X | X | | | | | - |
| | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 101 | Red-billed tropicbird | | | | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| 102 | Bridled tern | | | <50 | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Brown noddy | | | 20-40 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Brown pelican | S/F | E/E | 75-150 | X | X | X | X | X | X | X | X | X | X | X | X | AUG-FEB |
| | Peregrine falcon | | | | X | X | X | X | | | | | X | X | X | | - |
| | Red-billed tropicbird | | | 15-30 | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-tailed tropicbird | S | E | 5-10 | | | X | X | X | X | X | | | | | | MAR-AUG |
| 103 | Great blue heron | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | APR-AUG |
| | Laughing gull | | | | | | X | X | X | X | X | X | | | | | JUN-AUG |
| | Red-billed tropicbird | | | | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| | Roseate tern | S/F | E/T | | | | X | X | X | X | X | X | | | | | MAY-AUG |
| | Royal tern | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 104 | Laughing gull | | | | | | X | X | X | X | X | | | | | | JUN-AUG |
| | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-JUL |
| 105 | Red-billed tropicbird | | | 3-6 | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| | Roseate tern | S/F | E/T | 100-800 | | | X | X | X | X | X | X | | | | | MAY-AUG |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| 106 | Bridled tern | | | | | | X | X | X | X | X | | | | | | MAY-AUG |
| | Laughing gull | | | 200-400 | | | X | X | X | X | X | X | | | | | JUN-AUG |
| | Red-billed tropicbird | | | 3-6 | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| | Roseate tern | S/F | E/T | 14-275 | | | X | X | X | X | X | X | | | | | MAY-AUG |
| | Royal tern | | | 25-85 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Sandwich tern | | | 100-800 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Sooty tern | | | 1 | | | X | X | X | X | X | | | | | | APR-AUG |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | White-tailed tropicbird | S | E | | | | X | X | X | X | X | | | | | | MAR-AUG |
| 107 | Peregrine falcon | | | | X | X | X | X | | | | | X | X | X | | - |
| | Red-billed tropicbird | | | 5-20 | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| 110 | American oystercatcher | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Laughing gull | | | | | | X | X | X | X | X | X | | | | | JUN-AUG |
| | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |

FISH:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawning Eggs | Larvae | Juveniles | Adults |
|------|--------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------|-----------|---------|
| 1 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 63 | Common snook | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Great barracuda | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Mullet | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Tarpon | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| 98 | Common snook | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Great barracuda | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Groupers | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Grunts | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Mullet | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Parrotfish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Snappers | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | JAN-DEC |
| | Tarpon | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| 108 | Dwarf herring (blue fry) | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | - |

PLANT:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|--------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 106 | Mammillaria nivosa | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate Eggs | Larvae | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------|-----------|---------|
| 1 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | - | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | APR-OCT | JAN-DEC |
| 63 | Land crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-AUG | JUL-SEP | JAN-DEC |
| 88 | Native stream shrimp | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-MAY | APR-MAY | APR-MAY | JAN-DEC |
| | | | | | | | | | | | | | | | | | AUG-NOV | AUG-NOV | AUG-NOV | - |
| 98 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | MAR-OCT | JAN-DEC |
| | Land crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-AUG | JUL-SEP | JAN-DEC |
| | Native stream shrimp | | | | | | X | X | | | | X | X | X | X | | - | - | APR-MAY | - |
| | | | | | | | | | | | | | | | | | | AUG-NOV | - | - |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|----------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|-------------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 4 | Humpback whale | S/F | E/E | MODERATE | X | X | X | X | | | | | | | | | X X NOV-MAY | NOV-MAY |

VIRGIN ISLANDS - ESIMAP 6 cont.

BIOLOGICAL RESOURCES: cont.

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 62 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 75 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Leatherback sea turtle | S/F | E/E | | | X | X | X | X | X | X | | | | | | MAR-JUL | MAY-SEP | MAY-SEP | MAR-AUG |
| 97 | Green sea turtle | S/F | E/T | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| 104 | Virgin Islands tree boa | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - | JUL-SEP | JAN-DEC | JAN-DEC |
| 109 | Virgin Islands tree boa | S/F | E/E | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - | JUL-SEP | JAN-DEC | JAN-DEC |

TERRESTRIAL MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|---------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 98 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 102 | Bats | | | | X | X | X | X | X | X | X | X | X | X | X | X |
| 111 | Bats | | | | X | X | X | X | X | X | X | X | X | X | X | X |

HUMAN USE RESOURCES:

NATIONAL PARK:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|------------------------------|---------------|------------------------------|--------------|
| 98 | VIRGIN ISLANDS NATIONAL PARK | NPS | CHIEF OF RESOURCE MANAGEMENT | 340/693-8950 |

WATER INTAKE:

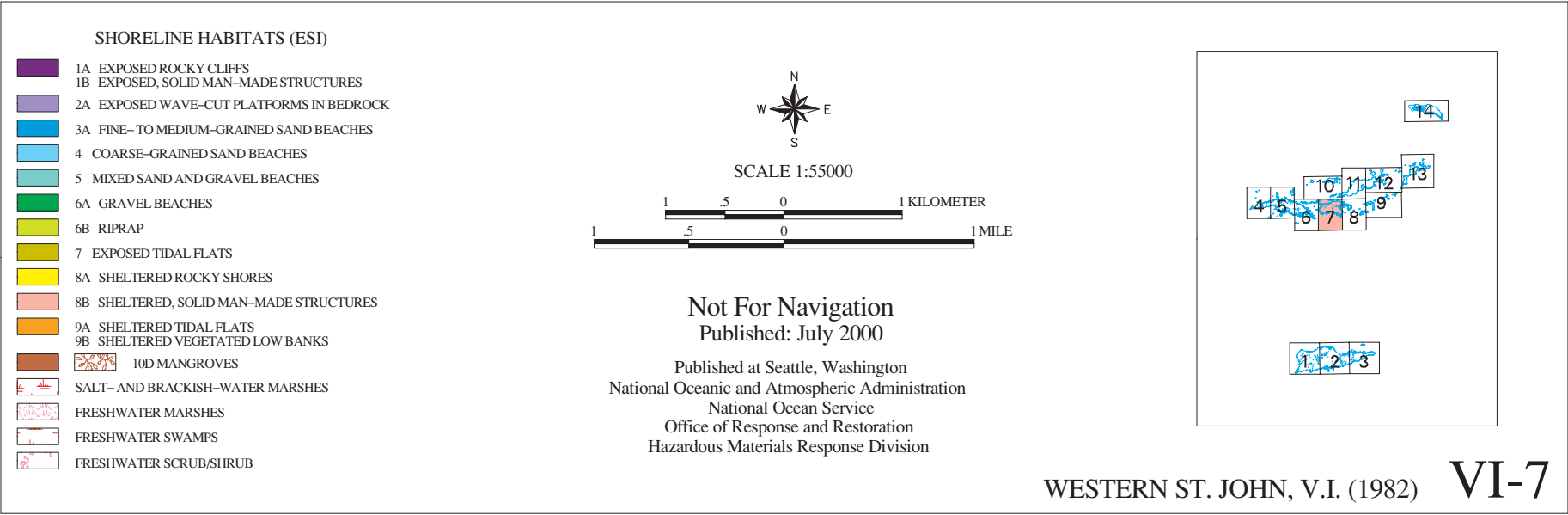
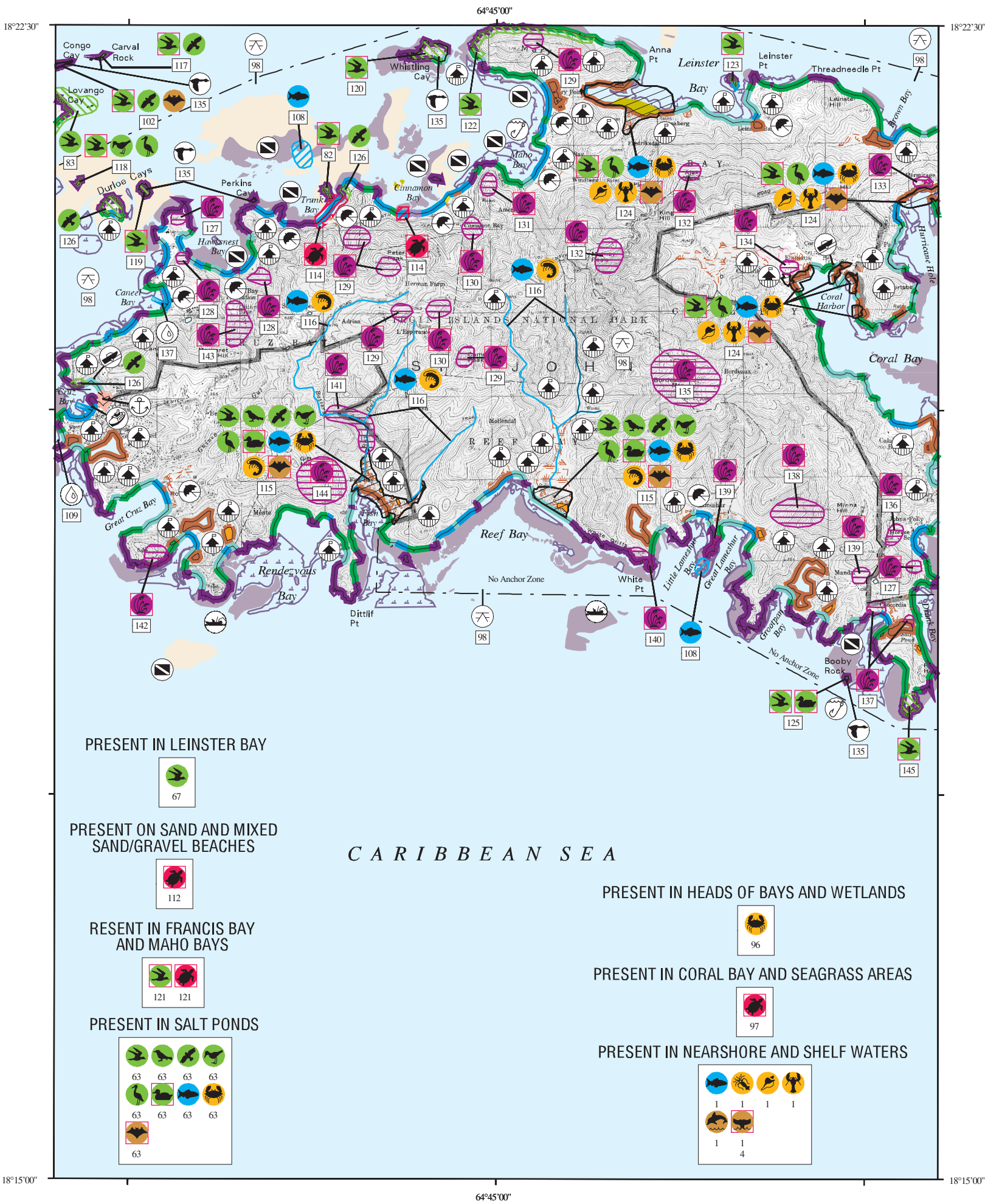
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|---------------------|--------------------|---------|--------------|
| 106 | CORAL WORLD | CORAL WORLD | | 340/775-1555 |
| 136 | DESALINATION PLANT | RITZ CARLTON HOTEL | | |
| 111 | DESALINATION PLANT | WYNDAM HOTEL | | |
| 115 | DESALINATION PLANTS | HOTELS (VARIOUS) | | |

WILDLIFE REFUGE:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--------------------------------------|---------------|-------------------------------|--------------|
| 126 | BUCK ISLAND NATIONAL WILDLIFE REFUGE | USFWS | REFUGE MANAGER | 340/773-4554 |
| 128 | CAS CAY/MANGROVE LAGOON MRWS | USVI DPNR | DIVISION OF FISH AND WILDLIFE | 340/775-6762 |
| 129 | COMPASS POINT. POND MRWS | USVI DPNR | DIVISION OF FISH AND WILDLIFE | 340/775-6762 |
| 134 | ST. JAMES BAY MRWS | USVI DPNR | DIVISION OF FISH AND WILDLIFE | 340/775-6762 |
| 135 | USVI WILDLIFE SANCTUARY | USVI DPNR | DIVISION OF FISH AND WILDLIFE | 340/775-6762 |

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.

ENVIRONMENTAL SENSITIVITY INDEX MAP



VIRGIN ISLANDS - ESIMAP 7

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting |
|------|----------------------------|-----|-----|--------|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| 63 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Belted kingfisher | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Black-necked stilt | | | | | | X | X | X | X | X | X | X | X | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | X | X | X | | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Magnificent frigatebird | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Osprey | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Passerine birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 67 | Seabirds | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 82 | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 83 | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 102 | Bridled tern | | | <50 | | | | | X | X | X | X | | | | | MAY-AUG |
| | Brown noddy | | | 20-40 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Brown pelican | S/F | E/E | 75-150 | X | X | X | X | X | X | X | X | X | X | X | X | AUG-FEB |
| | Peregrine falcon | | | | X | X | X | X | | | | | X | X | X | | - |
| | Red-billed tropicbird | | | 15-30 | X | X | X | X | X | | | | | X | X | X | OCT-JUN |
| | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-tailed tropicbird | S | E | 5-10 | | | | X | X | X | X | X | | | | | MAR-AUG |
| 115 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Belted kingfisher | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Black-necked stilt | | | | | | X | X | X | X | X | X | | | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | X | X | X | | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Magnificent frigatebird | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Osprey | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Passerine birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 117 | Bridled tern | | | 10-30 | | | | X | X | X | X | X | | | | | MAY-AUG |
| | Brown noddy | | | 25-75 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Osprey | | | | X | X | X | X | | | | | X | X | X | | - |
| | Red-billed tropicbird | | | 10-15 | X | X | X | X | X | | | | | X | X | X | OCT-JUN |
| | Roseate tern | S/F | E/T | 77 | | | X | X | X | X | X | X | | | | | MAY-AUG |
| | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 118 | American oystercatcher | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Roseate tern | S/F | E/T | | | | X | X | X | X | X | X | | | | | MAY-AUG |
| | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Yellow-crowned night-heron | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 119 | Roseate tern | S/F | E/T | | | | X | X | X | X | X | X | | | | | MAY-AUG |
| | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 120 | Brown pelican | S/F | E/E | 5-30 | X | X | X | X | X | X | X | X | X | X | X | X | AUG-FEB |
| 121 | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 122 | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | AUG-FEB |
| | Red-billed tropicbird | | | | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| 123 | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | AUG-FEB |
| 125 | Bridled tern | | | 5-20 | | | | | X | X | X | X | | | | | MAY-AUG |
| | Laughing gull | | | 5-20 | | | | X | X | X | X | X | | | | | JUN-AUG |
| | Roseate tern | S/F | E/T | 7 | | | X | X | X | X | X | X | | | | | MAY-AUG |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| 126 | Peregrine falcon | | | | X | X | X | X | X | | | | X | X | X | | - |
| 145 | Red-billed tropicbird | | | | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| | White-tailed tropicbird | S | E | | | | X | X | X | X | X | X | | | | | MAR-AUG |
| 147 | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |

FISH:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawning | Eggs | Larvae | Juveniles | Adults |
|------|--------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|--------------------|--------------------|-----------|---------|
| 1 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 63 | Common snook | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Great barracuda | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Mullet | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Tarpon | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| 108 | Dwarf herring (blue fry) | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | - | JAN-DEC |
| 115 | Common snook | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Great barracuda | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Mountain mullet | | | | | | X | X | | | | X | X | X | X | | - | - | APR-MAY AUG-NOV | - | - |
| | Mullet | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Tarpon | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| 116 | Mountain mullet | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-MAY AUG-NOV | APR-MAY AUG-NOV | APR-MAY AUG-NOV | JAN-DEC | JAN-DEC |
| 147 | Common snook | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Great barracuda | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Groupers | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Grunts | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Mojarras | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Parrotfish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Snappers | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Tarpon | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |

VIRGIN ISLANDS - ESIMAP 7 cont.

BIOLOGICAL RESOURCES: cont.

PLANT:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|--------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 127 | Eugenia sp. | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 128 | Malpighia woodburyana | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 129 | Peperomia myrtifolia | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 130 | Schoepfia schreberi | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 131 | Galactia eggersii | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 132 | Erythrina eggersii | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 133 | Cypselea humifusa | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 134 | Solanum mucronatum | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 135 | Calyptranthes thomasiana | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Ilex urbaniana | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Schoepfia schreberi | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 136 | Zanthoxylum thomasianum | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 137 | Malpighia sp. | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 138 | Erythrina eggersii | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Malpighia woodburyana | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 139 | Malpighia linearis | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 140 | Byrsonima sp. | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Eugenia sp. | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 141 | Erythrina eggersii | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Tillandsia lineatispica | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 142 | Byrsonima sp. | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Psidium sp. | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 143 | Malpighia woodburyana | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Peperomia myrtifolia | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 144 | Machaonia woodburyana | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Tillandsia lineatispica | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| | Zanthoxylum thomasianum | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X |

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate | Eggs | Larvae | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|------------|---------|---------|-----------|---------|
| 1 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | - | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | APR-OCT | JAN-DEC | JAN-DEC |
| 63 | Land crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-AUG | JUL-SEP | JAN-DEC | JAN-DEC |
| 96 | Land crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-AUG | JUL-SEP | JAN-DEC | JAN-DEC |
| 115 | Land crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-AUG | JUL-SEP | JAN-DEC | JAN-DEC |
| | Native stream shrimp | | | | | | X | X | | | | X | X | X | X | | - | - | APR-MAY | - | - |
| | | | | | | | | | | | | | | | | | | AUG-NOV | | | |
| 116 | Native stream shrimp | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-MAY | APR-MAY | APR-MAY | JAN-DEC | JAN-DEC |
| | | | | | | | | | | | | | | | | | AUG-NOV | AUG-NOV | AUG-NOV | | |
| 147 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | MAR-OCT | JAN-DEC | - |
| | Land crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-AUG | JUL-SEP | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|----------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|--------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 4 | Humpback whale | S/F | E/E | MODERATE | X | X | X | X | | | | | | | | | X X | NOV-MAY |

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 97 | Green sea turtle | S/F | E/T | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| 112 | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 114 | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Leatherback sea turtle | S/F | E/E | | | X | X | X | X | X | X | X | | | | | MAR-JUL | MAY-SEP | MAY-SEP | MAR-AUG |
| 121 | Green sea turtle | S/F | E/T | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |

TERRESTRIAL MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|---------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 102 | Bats | | | | X | X | X | X | X | X | X | X | X | X | X | X |
| 115 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 147 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |

HUMAN USE RESOURCES:

NATIONAL PARK:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|------------------------------|---------------|------------------------------|--------------|
| 98 | VIRGIN ISLANDS NATIONAL PARK | NPS | CHIEF OF RESOURCE MANAGEMENT | 340/693-8950 |

WATER INTAKE:

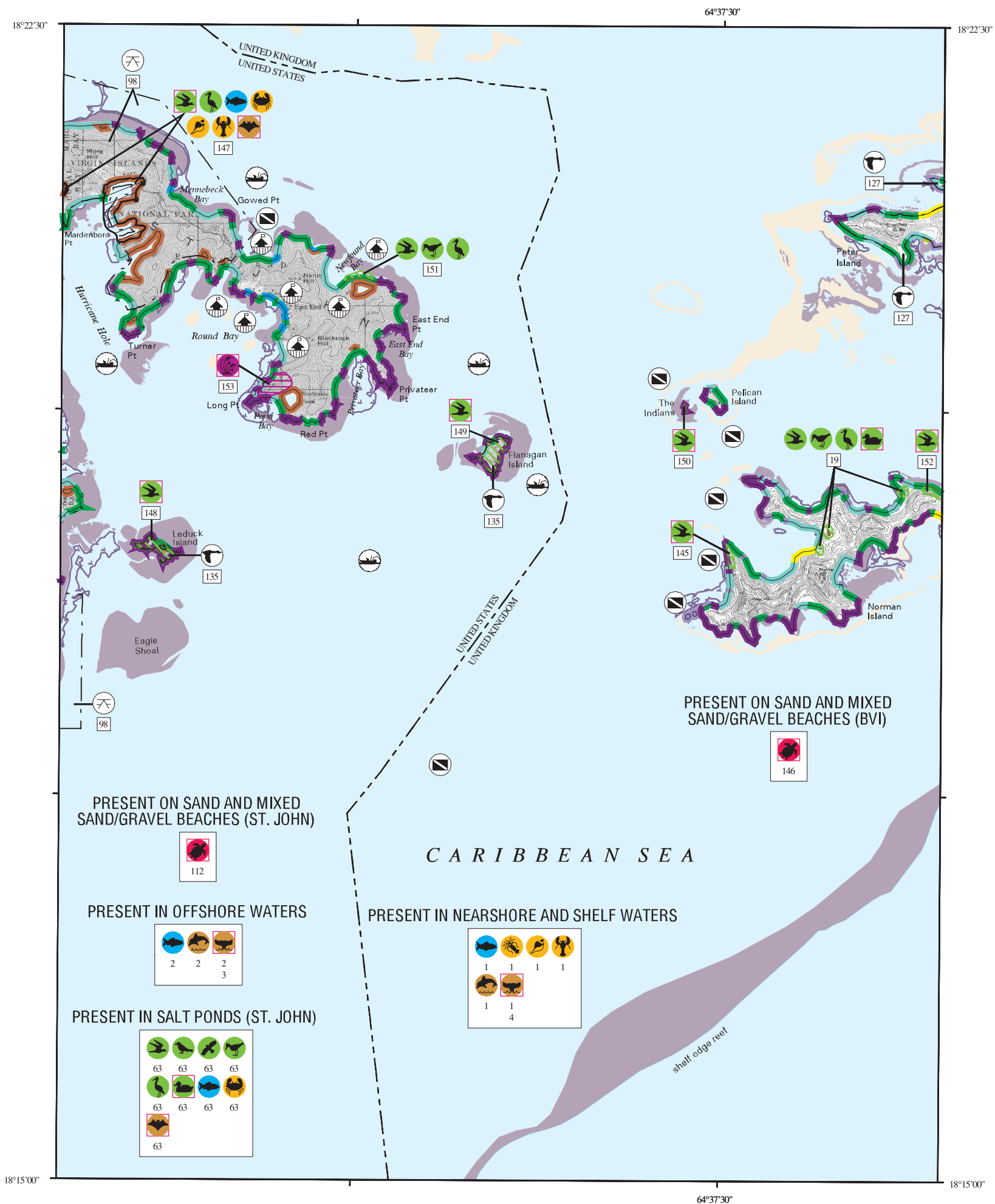
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--------------------|------------------|---------|--------------|
| 137 | DESALINATION PLANT | CANEEL BAY HOTEL | | |
| 109 | DESALINATION PLANT | WAPA | | 340/773-4379 |

WILDLIFE REFUGE:

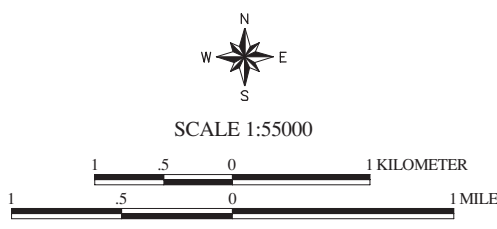
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|-------------------------|---------------|-------------------------------|--------------|
| 135 | USVI WILDLIFE SANCTUARY | USVI DPNR | DIVISION OF FISH AND WILDLIFE | 340/775-6762 |

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.

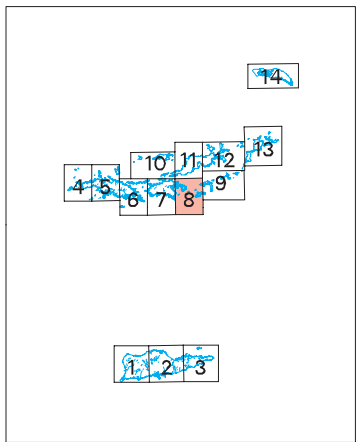
ENVIRONMENTAL SENSITIVITY INDEX MAP



- SHORELINE HABITATS (ESI)**
- 1A EXPOSED ROCKY CLIFFS
 - 1B EXPOSED, SOLID MAN-MADE STRUCTURES
 - 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK
 - 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
 - 4 COARSE-GRAINED SAND BEACHES
 - 5 MIXED SAND AND GRAVEL BEACHES
 - 6A GRAVEL BEACHES
 - 6B RIPRAP
 - 7 EXPOSED TIDAL FLATS
 - 8A SHELTERED ROCKY SHORES
 - 8B SHELTERED, SOLID MAN-MADE STRUCTURES
 - 9A SHELTERED TIDAL FLATS
 - 9B SHELTERED VEGETATED LOW BANKS
 - 10D MANGROVES
 - SALT- AND BRACKISH-WATER MARSHES
 - FRESHWATER MARSHES
 - FRESHWATER SWAMPS
 - FRESHWATER SCRUB/SHRUB



Not For Navigation
Published: July 2000
Published at Seattle, Washington
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division



VIRGIN ISLANDS - ESIMAP 8

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting |
|------|-------------------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| 19 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Black-necked stilt | | | | | X | X | X | X | X | X | X | X | | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | X | X | X | | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 63 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Belted kingfisher | | | | X | X | X | X | | | | | X | X | X | X | - |
| | Black-necked stilt | | | | | X | X | X | X | X | X | X | | | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | X | X | X | | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Magnificent frigatebird | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Osprey | | | | X | X | X | X | | | | X | X | X | X | | - |
| | Passerine birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 145 | Red-billed tropicbird | | | | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| | White-tailed tropicbird | S | E | | | X | X | X | X | X | | | | | | | MAR-AUG |
| 147 | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 148 | Laughing gull | | | 50-200 | | | X | X | X | X | X | | | | | | JUN-AUG |
| | Roseate tern | S/F | E/T | 500-800 | | | X | X | X | X | X | | | | | | MAY-AUG |
| 149 | Bridled tern | | | | | | X | X | X | X | | | | | | | MAY-AUG |
| | Laughing gull | | | 100-300 | | | X | X | X | X | X | | | | | | JUN-AUG |
| | Roseate tern | S/F | E/T | 200-1000 | | | X | X | X | X | X | | | | | | MAY-AUG |
| 150 | Bridled tern | | | | | | X | X | X | X | | | | | | | MAY-AUG |
| | Laughing gull | | | | | | X | X | X | X | X | | | | | | JUN-AUG |
| | Roseate tern | S/F | E/T | | | | X | X | X | X | X | | | | | | MAY-AUG |
| 151 | Seabirds | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Shorebirds | | | | X | X | X | X | | | X | X | X | X | X | | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| 152 | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | AUG-FEB |

FISH:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawning | Eggs | Larvae | Juveniles | Adults |
|------|-----------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|----------|---------|---------|-----------|---------|
| 1 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 2 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 63 | Common snook | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Great barracuda | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Mullet | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Tarpon | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| 147 | Common snook | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Great barracuda | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Groupers | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Grunts | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Mojarras | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Parrotfish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Snappers | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Tarpon | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |

PLANT:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|-----------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 153 | Machaonia woodburyana | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate | Eggs | Larvae | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|------------|---------|---------|-----------|---------|
| 1 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | - | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | APR-OCT | JAN-DEC | JAN-DEC |
| 63 | Land crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-AUG | JUL-SEP | JAN-DEC | JAN-DEC |
| 147 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | MAR-OCT | JAN-DEC | - |
| | Land crabs | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-AUG | JUL-SEP | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|----------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 2 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 3 | Sperm whale | S/F | E/E | LOW | X | X | X | X | X | X | | X | X | X | X | | - | - |
| 4 | Humpback whale | S/F | E/E | MODERATE | X | X | X | X | | | | | X | X | | | NOV-MAY | NOV-MAY |

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|----------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 112 | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 146 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |

TERRESTRIAL MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D |
|------|---------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |
| 147 | Fisherman bat | S | E | | X | X | X | X | X | X | X | X | X | X | X | X |

HUMAN USE RESOURCES:

NATIONAL PARK:

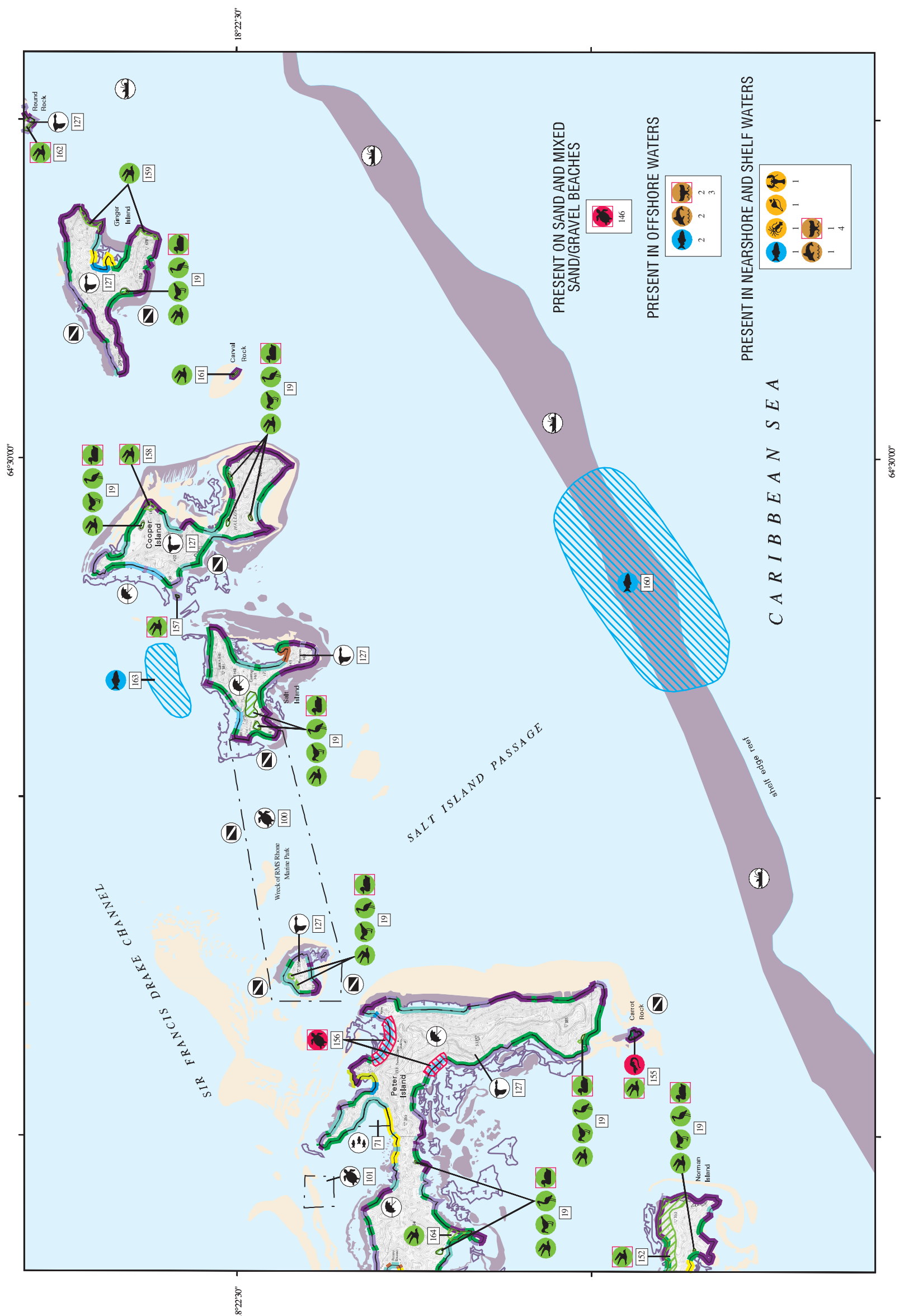
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|------------------------------|---------------|------------------------------|--------------|
| 98 | VIRGIN ISLANDS NATIONAL PARK | NPS | CHIEF OF RESOURCE MANAGEMENT | 340/693-8950 |

WILDLIFE REFUGE:

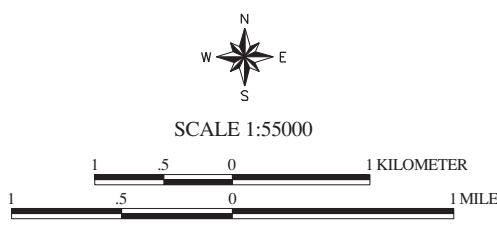
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|-------------------------|--------------------------------------|--|--------------|
| 127 | BVI BIRD SANCTUARY | BVI CONSERVATION AND FISHERIES DEPT. | CHIEF CONSERVATION AND FISHERIES OFFICER | 284/494-5681 |
| 135 | USVI WILDLIFE SANCTUARY | USVI DPNR | DIVISION OF FISH AND WILDLIFE | 340/775-6762 |

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.

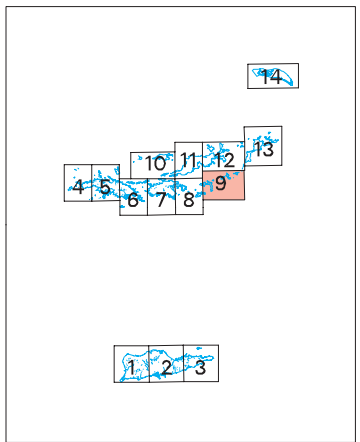
ENVIRONMENTAL SENSITIVITY INDEX MAP



- SHORELINE HABITATS (ESI)
- 1A EXPOSED ROCKY CLIFFS
 - 1B EXPOSED, SOLID MAN-MADE STRUCTURES
 - 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK
 - 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
 - 4 COARSE-GRAINED SAND BEACHES
 - 5 MIXED SAND AND GRAVEL BEACHES
 - 6A GRAVEL BEACHES
 - 6B RIPRAP
 - 7 EXPOSED TIDAL FLATS
 - 8A SHELTERED ROCKY SHORES
 - 8B SHELTERED, SOLID MAN-MADE STRUCTURES
 - 9A SHELTERED TIDAL FLATS
 - 9B SHELTERED VEGETATED LOW BANKS
 - 10D MANGROVES
 - SALT- AND BRACKISH-WATER MARSHES
 - FRESHWATER MARSHES
 - FRESHWATER SWAMPS
 - FRESHWATER SCRUB/SHRUB



Not For Navigation
Published: July 2000
Published at Seattle, Washington
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division



VIRGIN ISLANDS - ESIMAP 9

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| 19 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Black-necked stilt | | | | | X | X | X | X | X | X | X | X | X | X | X | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | X | X | X | | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 152 | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | AUG-FEB |
| 155 | Bridled tern | | | | | X | X | X | X | X | | | | | | | MAY-AUG |
| | Red-billed tropicbird | | | | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| | Roseate tern | S/F | E/T | | | X | X | X | X | X | X | | | | | | MAY-AUG |
| | Sooty tern | | | | | X | X | X | X | X | | | | | | | APR-AUG |
| | White-tailed tropicbird | S | E | | | X | X | X | X | X | | | | | | | MAR-AUG |
| 157 | Bridled tern | | | | | X | X | X | X | | | | | | | | MAY-AUG |
| | Roseate tern | S/F | E/T | | | X | X | X | X | X | X | | | | | | MAY-AUG |
| 158 | Red-billed tropicbird | | | | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| | White-tailed tropicbird | S | E | | | X | X | X | X | X | | | | | | | MAR-AUG |
| 159 | Bridled tern | | | | | X | X | X | X | | | | | | | | MAY-AUG |
| | Brown noddy | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| 161 | Bridled tern | | | | | X | X | X | X | X | | | | | | | MAY-AUG |
| | Brown noddy | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Magnificent frigatebird | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Sooty tern | | | | | X | X | X | X | X | | | | | | | APR-AUG |
| 162 | Bridled tern | | | | | X | X | X | X | X | | | | | | | MAY-AUG |
| | Brown noddy | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Roseate tern | S/F | E/T | | | X | X | X | X | X | | | | | | | MAY-AUG |
| | Sooty tern | | | | | X | X | X | X | X | | | | | | | APR-AUG |
| 164 | Gulls | | | | | X | X | X | X | X | | | | | | | JUN-AUG |
| | Terns | | | | | X | X | X | X | X | | | | | | | MAY-AUG |

FISH:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawning | Eggs | Larvae | Juveniles | Adults |
|------|--------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|----------|---------|---------|-----------|---------|
| 1 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 2 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 160 | Red hind | | | HIGH | X | X | X | | | | | | | | | | JAN-MAR | JAN-MAR | JAN-MAR | - | DEC-MAR |
| 163 | Red hind | | | | X | X | X | | | | | | | | | | JAN-MAR | JAN-MAR | JAN-MAR | - | DEC-MAR |

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate | Eggs | Larvae | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|------------|---------|---------|-----------|---------|
| 1 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | - | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | APR-OCT | JAN-DEC | JAN-DEC |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|----------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 2 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 3 | Sperm whale | S/F | E/E | LOW | X | X | X | X | X | X | | | X | X | X | X | - | - |
| 4 | Humpback whale | S/F | E/E | MODERATE | X | X | X | X | X | | | | | | X | X | NOV-MAY | NOV-MAY |

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 146 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 155 | Rare lizard | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | JAN-DEC |
| 156 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Leatherback sea turtle | S/F | E/E | | | X | X | X | X | X | X | | | | | | MAR-JUL | MAY-SEP | MAY-SEP | MAR-AUG |

HUMAN USE RESOURCES:

MANAGEMENT AREA:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--------------------------------------|--------------------------------------|--|--------------|
| 71 | PETER ISLAND FISHERIES PRIORITY AREA | BVI CONSERVATION AND FISHERIES DEPT. | CHIEF CONSERVATION AND FISHERIES OFFICER | 284/494-5681 |

NATIONAL PARK:

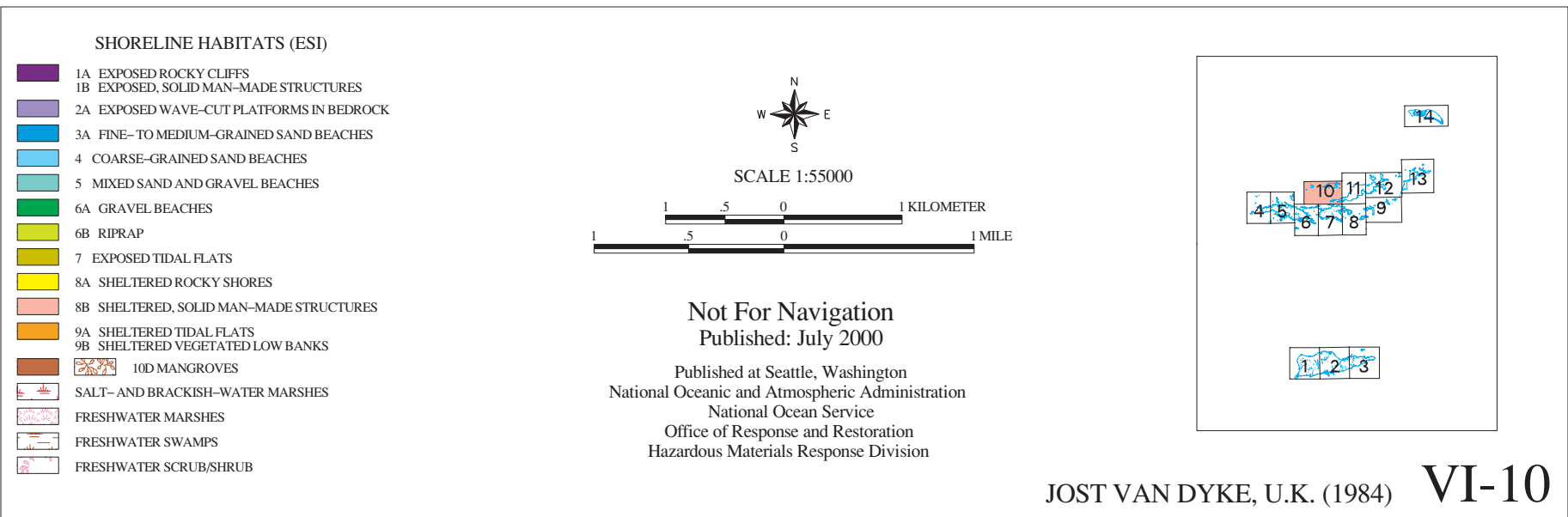
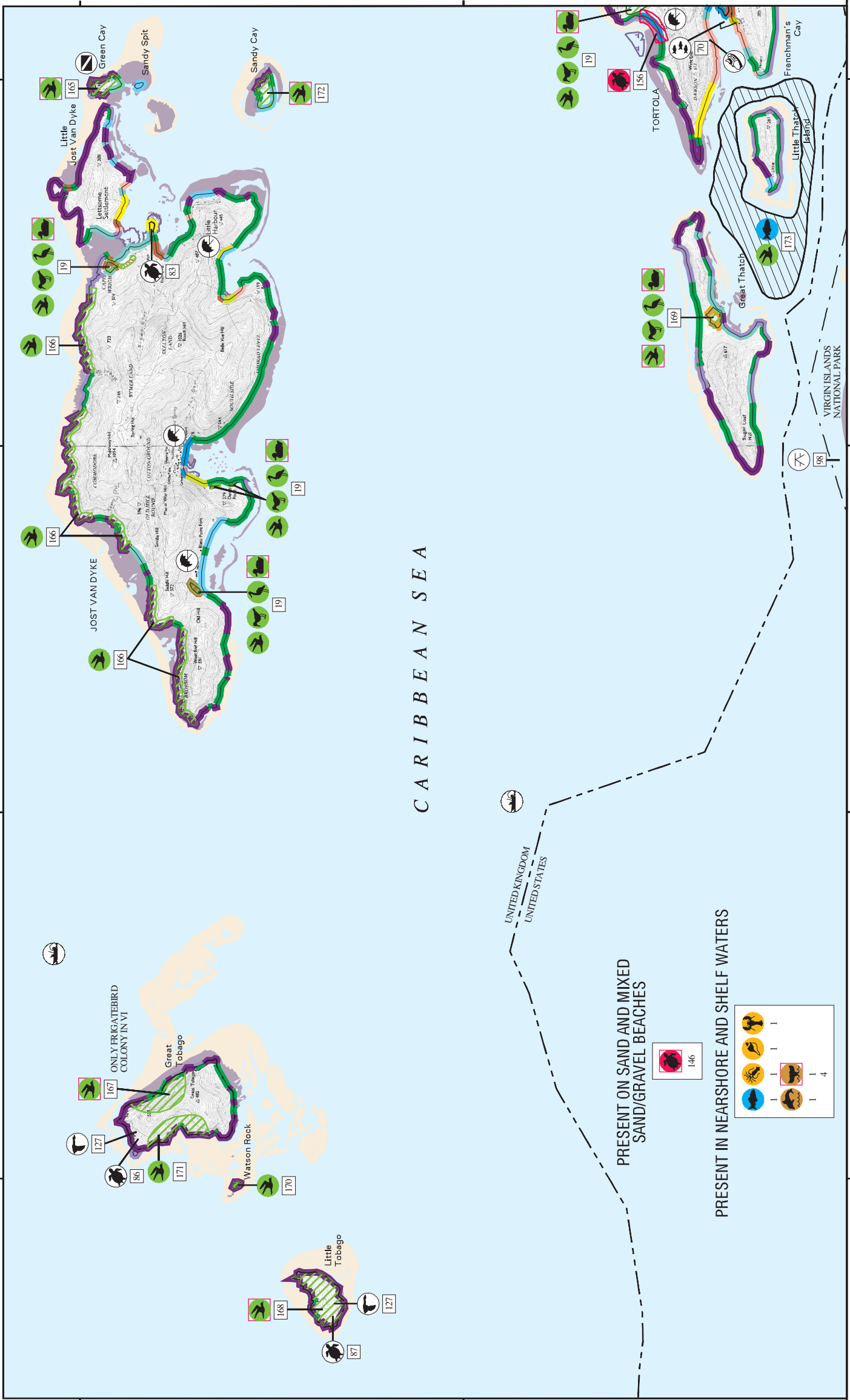
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--------------------------------------|--------------------------|---------|--------------|
| 100 | WRECK OF RMS RHONE NAT'L MARINE PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 101 | WRECK OF RMS RHONE NMP (ANCHORAGE) | BVI NATIONAL PARKS TRUST | | 284/494-3904 |

WILDLIFE REFUGE:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--------------------|--------------------------------------|--|--------------|
| 127 | BVI BIRD SANCTUARY | BVI CONSERVATION AND FISHERIES DEPT. | CHIEF CONSERVATION AND FISHERIES OFFICER | 284/494-5681 |

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.

ENVIRONMENTAL SENSITIVITY INDEX MAP



VIRGIN ISLANDS - ESIMAP 10

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| 19 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Black-necked stilt | | | | | X | X | X | X | X | X | X | X | X | X | X | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | | X | X | X | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | X | X | X | X | X | X | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 165 | Bridled tern | | | | | X | X | X | X | X | | | | | | | MAY-AUG |
| | Brown noddy | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Laughing gull | | | | | X | X | X | X | X | | | | | | | JUN-AUG |
| | Roseate tern | S/F | E/T | | | X | X | X | X | X | | | | | | | MAY-AUG |
| | Royal tern | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Sandwich tern | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| 166 | Brown noddy | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Red-billed tropicbird | | | | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| 167 | Brown booby | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Magnificent frigatebird | | | | X | X | X | X | X | X | X | X | X | X | X | X | OCT-MAY |
| | Red-billed tropicbird | | | | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| | Red-footed booby | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT |
| | White-tailed tropicbird | S | E | | | X | X | X | X | X | | | | | | | MAR-AUG |
| 168 | Brown booby | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | AUG-FEB |
| | Laughing gull | | | | | X | X | X | X | X | | | | | | | JUN-AUG |
| 169 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Black-necked stilt | | | | | X | X | X | X | X | X | X | X | | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | | X | X | X | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Least tern | S | E | | | X | X | X | X | X | | | | | | | MAY-AUG |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 170 | Gulls | | | | | X | X | X | X | X | | | | | | | JUN-AUG |
| | Terns | | | | | X | X | X | X | X | | | | | | | MAY-AUG |
| 171 | Red-billed tropicbird | | | | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| 172 | Red-billed tropicbird | | | | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| | White-tailed tropicbird | S | E | | | X | X | X | X | X | | | | | | | MAR-AUG |
| 173 | Seabirds | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - |

FISH:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawning | Eggs | Larvae | Juveniles | Adults |
|------|--------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|----------|---------|---------|-----------|---------|
| 1 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 173 | Forage fish | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | - |

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate | Eggs | Larvae | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|------------|---------|---------|-----------|---------|
| 1 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | - | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | APR-OCT | JAN-DEC | JAN-DEC |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|----------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|--------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 4 | Humpback whale | S/F | E/E | MODERATE | X | X | X | X | X | | | | | | | X | X | NOV-MAY |

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 146 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 156 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Leatherback sea turtle | S/F | E/E | | | X | X | X | X | X | X | | | | | | MAR-JUL | MAY-SEP | MAY-SEP | MAR-AUG |

HUMAN USE RESOURCES:

MANAGEMENT AREA:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|---|--------------------------------------|--|--------------|
| 70 | FRENCHMAN'S CAY FISHERIES PRIORITY AREA | BVI CONSERVATION AND FISHERIES DEPT. | CHIEF CONSERVATION AND FISHERIES OFFICER | 284/494-5681 |

NATIONAL PARK:

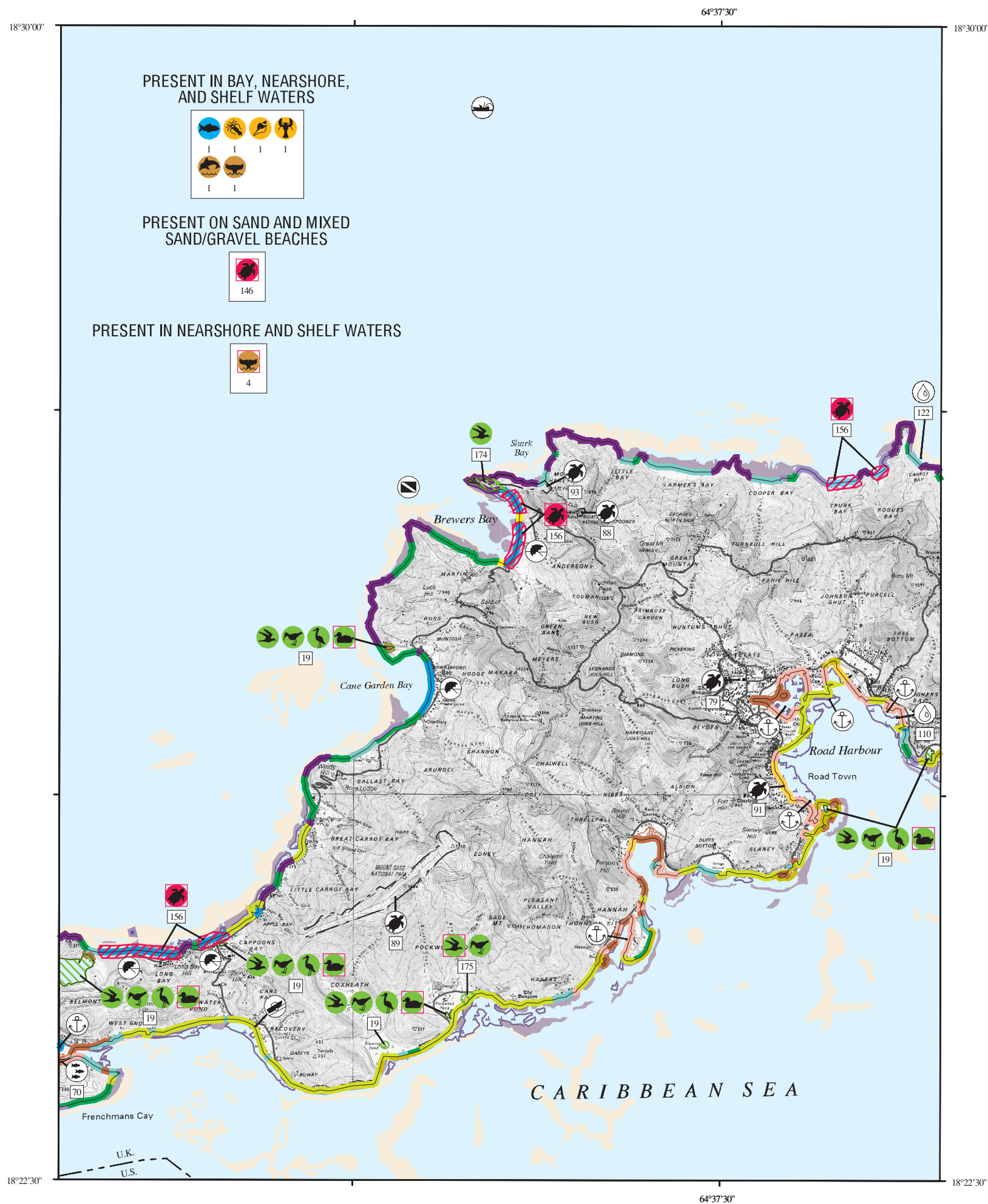
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|------------------------------|--------------------------|------------------------------|--------------|
| 83 | DIAMOND CAY NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 86 | GREAT TOBAGO NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 87 | LITTLE TOBAGO NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 98 | VIRGIN ISLANDS NATIONAL PARK | NPS | CHIEF OF RESOURCE MANAGEMENT | 340/693-8950 |

WILDLIFE REFUGE:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--------------------|--------------------------------------|--|--------------|
| 127 | BVI BIRD SANCTUARY | BVI CONSERVATION AND FISHERIES DEPT. | CHIEF CONSERVATION AND FISHERIES OFFICER | 284/494-5681 |

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.

ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

1A EXPOSED ROCKY CLIFFS

1B EXPOSED, SOLID MAN-MADE STRUCTURES

2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK

3A FINE- TO MEDIUM-GRAINED SAND BEACHES

4 COARSE-GRAINED SAND BEACHES

5 MIXED SAND AND GRAVEL BEACHES

6A GRAVEL BEACHES

6B RIPRAP

7 EXPOSED TIDAL FLATS

8A SHELTERED ROCKY SHORES

8B SHELTERED, SOLID MAN-MADE STRUCTURES

9A SHELTERED TIDAL FLATS

9B SHELTERED VEGETATED LOW BANKS

10D MANGROVES

SALT- AND BRACKISH-WATER MARSHES

FRESHWATER MARSHES

FRESHWATER SWAMPS

FRESHWATER SCRUB/SHRUB

N

W

E

S

SCALE 1:55000

1 0.5 0 1 KILOMETER

1 0.5 0 1 MILE

Not For Navigation

Published: July 2000

Published at Seattle, Washington

National Oceanic and Atmospheric Administration

National Ocean Service

Office of Response and Restoration

Hazardous Materials Response Division

14

10 11 12 13

4 5 6 7 8 9

1 2 3

TORTOLA, U.K. (1984) VI-11

VIRGIN ISLANDS - ESIMAP 11

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| 19 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Black-necked stilt | | | | | X | X | X | X | X | X | X | X | X | X | X | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | | | X | X | X |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | Shorebirds | | | | X | X | X | X | X | | | X | X | X | X | X | X |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 174 | Brown booby | | | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | Magnificent frigatebird | | | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 175 | American oystercatcher | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Least tern | S | E | | | | X | X | X | X | X | | | | | | MAY-AUG |

FISH:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawning | Eggs | Larvae | Juveniles | Adults |
|------|--------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|----------|---------|---------|-----------|---------|
| 1 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate | Eggs | Larvae | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|------------|---------|---------|-----------|---------|
| 1 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | - | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | APR-OCT | JAN-DEC | JAN-DEC |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|----------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|--------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 4 | Humpback whale | S/F | E/E | MODERATE | X | X | X | X | X | | | | | | | X | X | NOV-MAY |

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 146 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 156 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Leatherback sea turtle | S/F | E/E | | | | X | X | X | X | X | X | X | | | | MAR-JUL | MAY-SEP | MAY-SEP | MAR-AUG |

HUMAN USE RESOURCES:

MANAGEMENT AREA:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|---|--------------------------------------|--|--------------|
| 70 | FRENCHMAN'S CAY FISHERIES PRIORITY AREA | BVI CONSERVATION AND FISHERIES DEPT. | CHIEF CONSERVATION AND FISHERIES OFFICER | 284/494-5681 |

NATIONAL PARK:

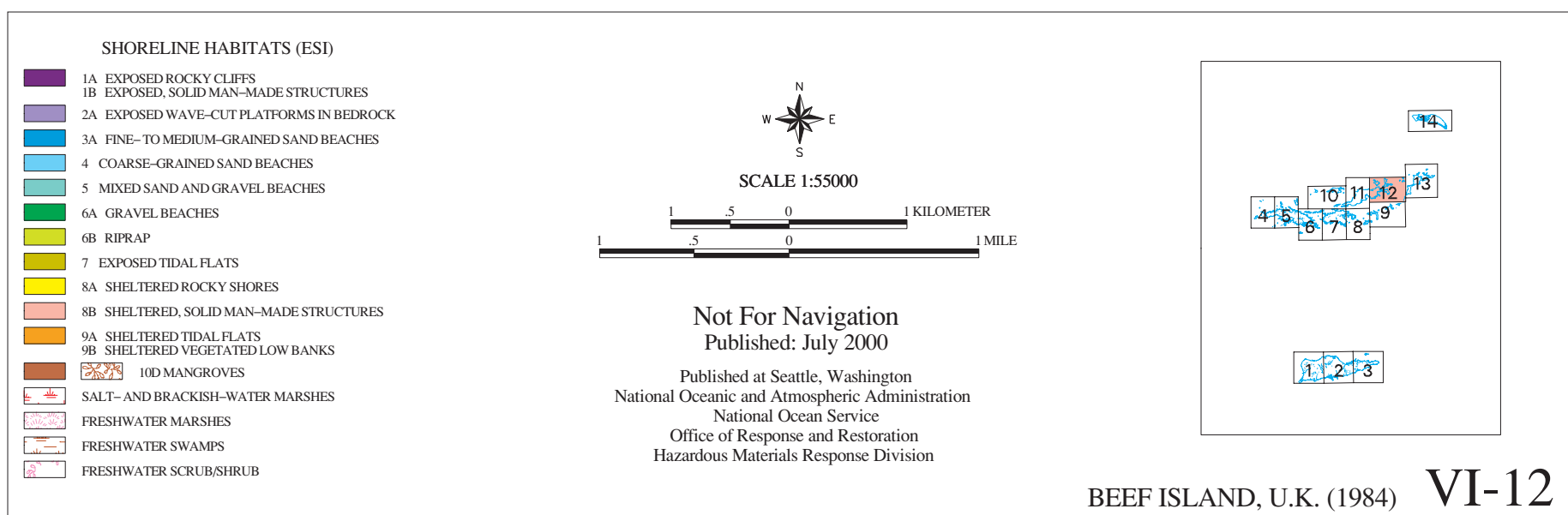
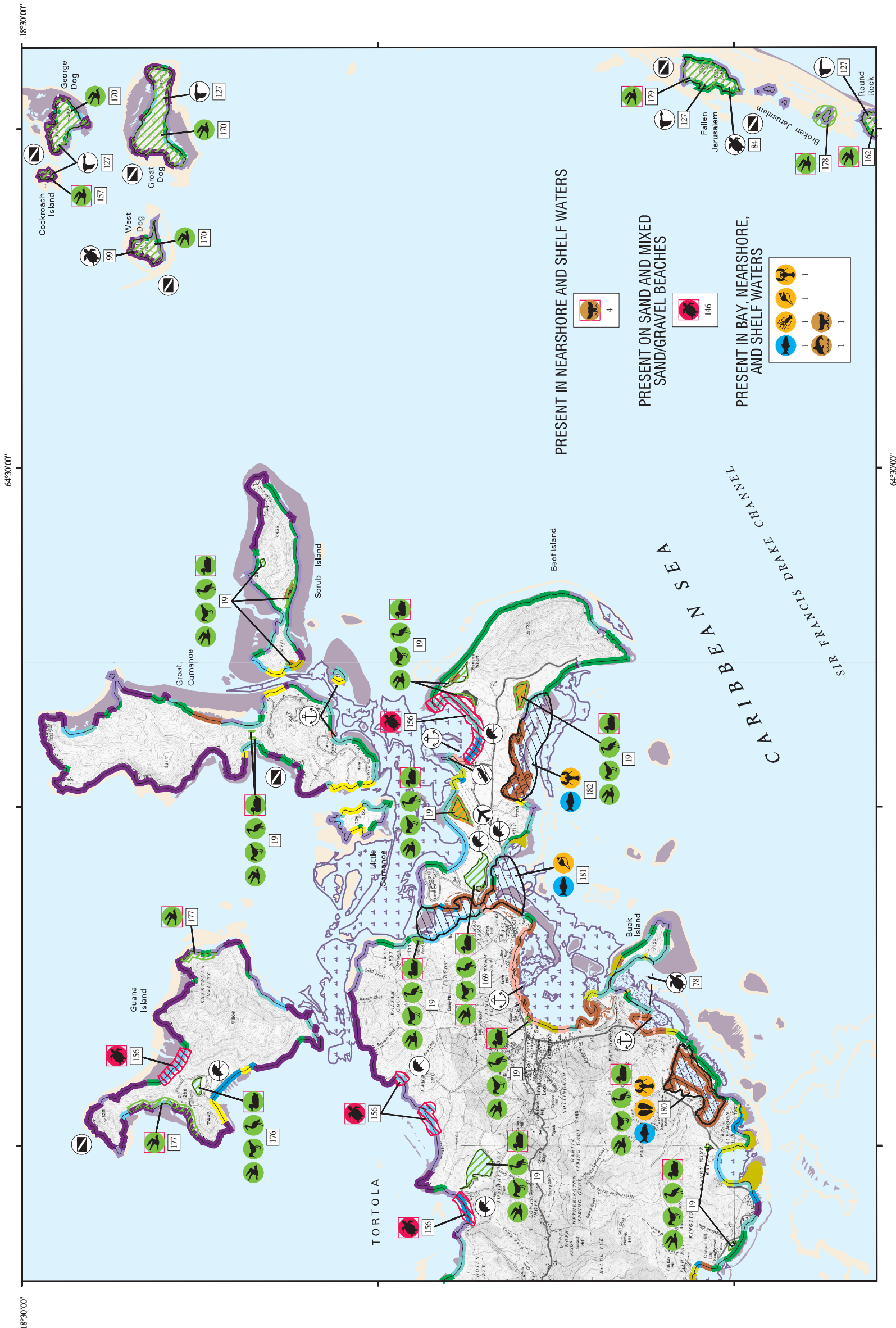
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|-------------------------------|--------------------------|---------|--------------|
| 79 | BOTANIC GARDENS NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 88 | MT. HEALTHY NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 89 | MT.SAGE NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 91 | QUEEN ELIZABETH NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 93 | SHARK BAY NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |

WATER INTAKE:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--------------------|----------------------------|---------|-------|
| 110 | DESALINATION PLANT | | | |
| 122 | WATER INTAKE | WATER AND SEWER DEPARTMENT | | |

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.

ENVIRONMENTAL SENSITIVITY INDEX MAP



VIRGIN ISLANDS - ESIMAP 12

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| 19 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Black-necked stilt | | | | | X | X | X | X | X | X | X | X | X | X | X | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | | | X | X | X |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | X | X | X | X | X | X | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 157 | Bridled tern | | | | | | | X | X | X | X | | | | | | MAY-AUG |
| | Roseate tern | S/F | E/T | | | | | X | X | X | X | X | | | | | MAY-AUG |
| 162 | Bridled tern | | | | | | | X | X | X | X | | | | | | MAY-AUG |
| | Brown noddy | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Roseate tern | S/F | E/T | | | | | X | X | X | X | X | | | | | MAY-AUG |
| | Sooty tern | | | | | | | X | X | X | X | X | | | | | APR-AUG |
| 169 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Black-necked stilt | | | | | | X | X | X | X | X | X | X | | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | | | X | X | X |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Least tern | S | E | | | | | X | X | X | X | X | | | | | MAY-AUG |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | X | X | X | X | X | X | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 170 | Gulls | | | | | | | X | X | X | X | X | | | | | JUN-AUG |
| | Terns | | | | | | | X | X | X | X | X | | | | | MAY-AUG |
| 176 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Black-necked stilt | | | | | | X | X | X | X | X | X | X | | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | | | X | X | X |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Greater flamingo | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | X | | X | X | X | X | X | X | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 177 | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | AUG-FEB |
| | Red-billed tropicbird | | | | X | X | X | X | X | | | | X | X | X | | OCT-JUN |
| | White-tailed tropicbird | S | E | | | | X | X | X | X | X | | | | | | MAR-AUG |
| 178 | Roseate tern | S/F | E/T | | | | | X | X | X | X | X | | | | | MAY-AUG |
| 179 | Bridled tern | | | | | | | X | X | X | X | X | | | | | MAY-AUG |
| | Laughing gull | | | | | | | X | X | X | X | X | | | | | JUN-AUG |
| | Sooty tern | | | | | | | X | X | X | X | X | | | | | APR-AUG |
| | White-tailed tropicbird | S | E | | | | X | X | X | X | X | | | | | | MAR-AUG |
| 180 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Black-necked stilt | | | | | | X | X | X | X | X | X | X | | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | | | X | X | X |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | X | | X | X | X | X | X | X | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |

FISH:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawning Eggs | Larvae | Juveniles | Adults |
|------|--------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------|-----------|---------|
| 1 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 180 | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| 181 | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| 182 | Dwarf herring (blue fry) | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Groupers | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Grunts | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| | Snappers | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | JAN-DEC |

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate Eggs | Larvae | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------|-----------|---------|
| 1 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | JAN-DEC | JAN-DEC |
| 180 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | MAR-OCT | JAN-DEC |
| | Mussels | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | JAN-DEC |
| 181 | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | - |
| 182 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | MAR-OCT | JAN-DEC |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|----------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 4 | Humpback whale | S/F | E/E | MODERATE | X | X | X | X | | | | | | | X | X | NOV-MAY | NOV-MAY |

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 146 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 156 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Leatherback sea turtle | S/F | E/E | | | X | X | X | X | X | X | | | | | | MAR-JUL | MAY-SEP | MAY-SEP | MAR-AUG |

HUMAN USE RESOURCES:

NATIONAL PARK:

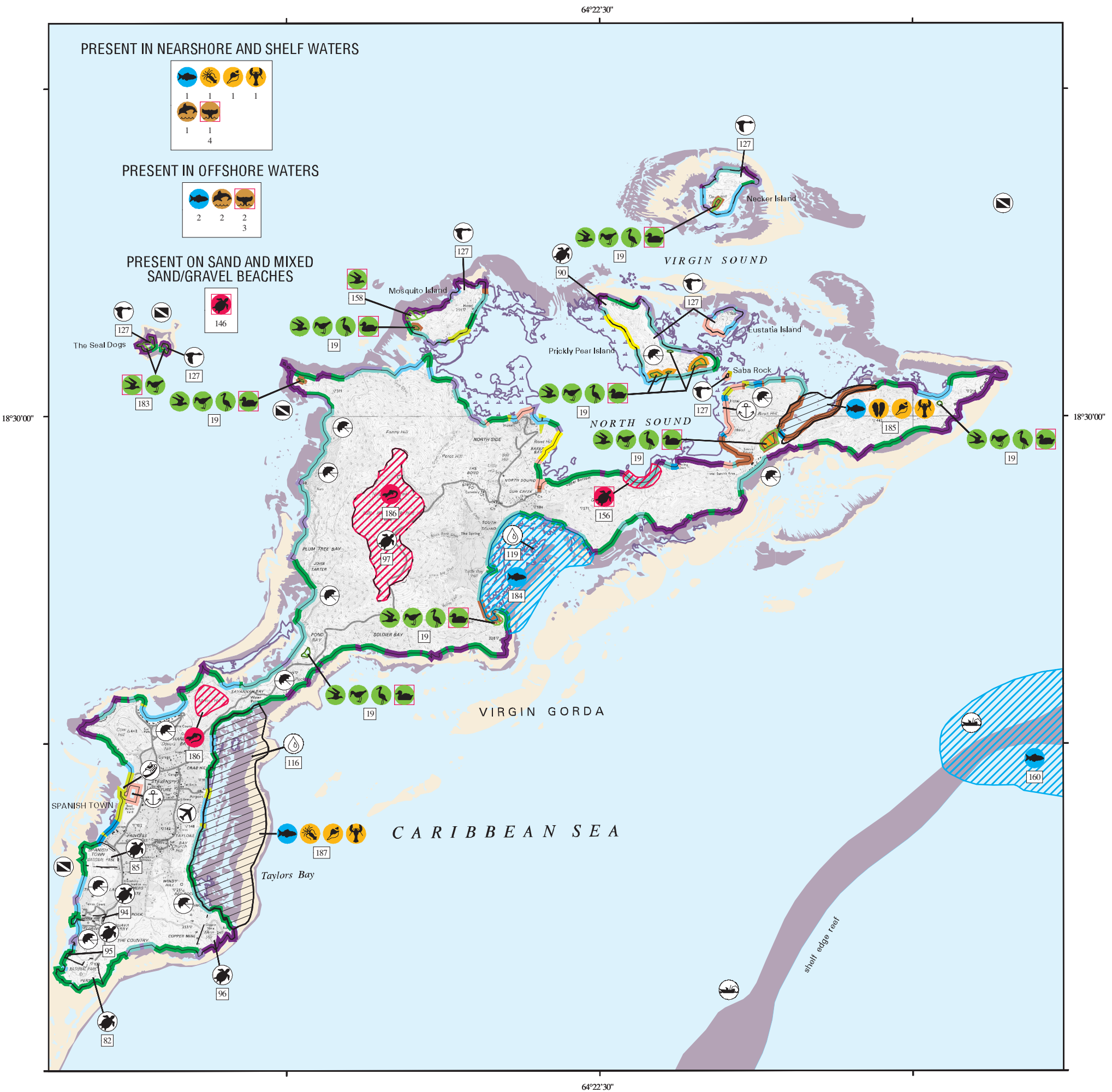
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|----------------------------------|--------------------------|---------|--------------|
| 78 | BAR BAY NATIONAL PARK (PROPOSED) | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 84 | FALLEN JERUSALEM NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 99 | WEST DOG ISLANDS NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |

WILDLIFE REFUGE:

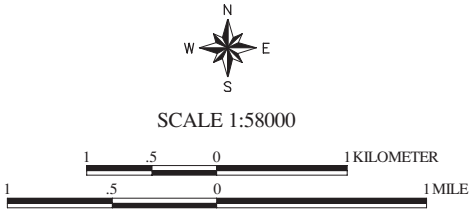
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--------------------|--------------------------------------|--|--------------|
| 127 | BVI BIRD SANCTUARY | BVI CONSERVATION AND FISHERIES DEPT. | CHIEF CONSERVATION AND FISHERIES OFFICER | 284/494-5681 |

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.

ENVIRONMENTAL SENSITIVITY INDEX MAP

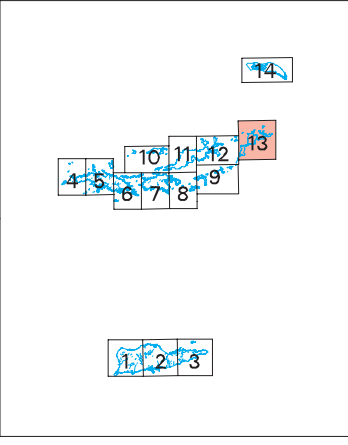


- SHORELINE HABITATS (ESI)
- 1A EXPOSED ROCKY CLIFFS
 - 1B EXPOSED, SOLID MAN-MADE STRUCTURES
 - 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK
 - 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
 - 4 COARSE-GRAINED SAND BEACHES
 - 5 MIXED SAND AND GRAVEL BEACHES
 - 6A GRAVEL BEACHES
 - 6B RIPRAP
 - 7 EXPOSED TIDAL FLATS
 - 8A SHELTERED ROCKY SHORES
 - 8B SHELTERED, SOLID MAN-MADE STRUCTURES
 - 9A SHELTERED TIDAL FLATS
 - 9B SHELTERED VEGETATED LOW BANKS
 - 10D MANGROVES
 - SALT- AND BRACKISH-WATER MARSHES
 - FRESHWATER MARSHES
 - FRESHWATER SWAMPS
 - FRESHWATER SCRUB/SHRUB



Not For Navigation
Published: July 2000

Published at Seattle, Washington
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division



VIRGIN ISLANDS - ESIMAP 13

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| 19 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Black-necked stilt | | | | | X | X | X | X | X | X | X | X | X | X | X | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | X | X | X | | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 158 | Red-billed tropicbird | | | | X | X | X | X | X | | | X | X | X | | | OCT-JUN |
| | White-tailed tropicbird | S | E | | | X | X | X | X | X | X | | | | | | MAR-AUG |
| 183 | American oystercatcher | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Bridled tern | | | | | X | X | X | X | | | | | | | | MAY-AUG |
| | Brown noddy | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Laughing gull | | | | | X | X | X | X | X | | | | | | | JUN-AUG |
| | Roseate tern | S/F | E/T | | | X | X | X | X | X | | | | | | | MAY-AUG |

FISH:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawning | Eggs | Larvae | Juveniles | Adults |
|------|-----------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|----------|---------|---------|-----------|---------|
| 1 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 2 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 160 | Red hind | | | HIGH | X | X | X | | | | | | | | | X | JAN-MAR | JAN-MAR | JAN-MAR | - | DEC-MAR |
| 184 | Tiger shark | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | - | - | JAN-DEC | JUL-AUG |
| 185 | Great barracuda | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| 187 | Nursery fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate | Eggs | Larvae | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|------------|---------|---------|-----------|---------|
| 1 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | - | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | APR-OCT | JAN-DEC | JAN-DEC |
| 185 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | MAR-OCT | JAN-DEC | - |
| | Mussels | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| 187 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | - | JAN-DEC | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | APR-OCT | JAN-DEC | JAN-DEC |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|----------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 2 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 3 | Sperm whale | S/F | E/E | LOW | X | X | X | X | X | X | | X | X | X | X | X | - | - |
| 4 | Humpback whale | S/F | E/E | MODERATE | X | X | X | X | X | | | | X | X | | | NOV-MAY | NOV-MAY |

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 146 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 156 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Leatherback sea turtle | S/F | E/E | | | X | X | X | X | X | X | | | | | | MAR-JUL | MAY-SEP | MAY-SEP | MAR-AUG |
| 186 | Rare lizard | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | JAN-DEC | JAN-DEC |

HUMAN USE RESOURCES:

NATIONAL PARK:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--|--------------------------|---------|--------------|
| 82 | DEVILS BAY NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 85 | FORT POINT NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 90 | PRICKLY PEAR ISLAND NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 94 | SPRING BAY NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 95 | THE BATHS NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 96 | THE COPPER MINE NATIONAL PARK (PROPOSED) | BVI NATIONAL PARKS TRUST | | 284/494-3904 |
| 97 | VIRGIN GORDA PEAK NATIONAL PARK | BVI NATIONAL PARKS TRUST | | 284/494-3904 |

WATER INTAKE:

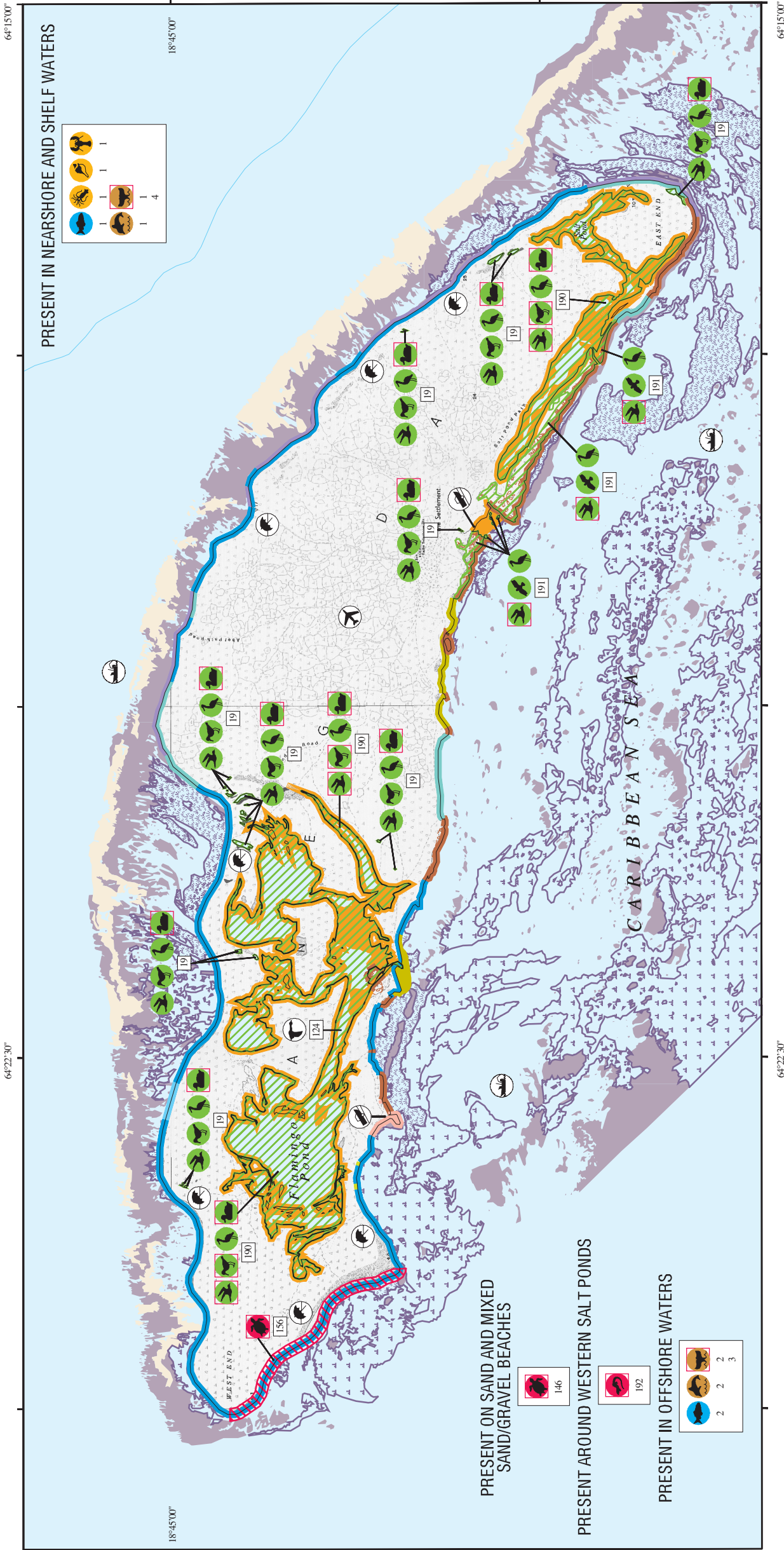
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|---------------------------------|---------------|---------|-------|
| 116 | HANDSOME BAY DESALINATION PLANT | | | |
| 119 | NORTH SOUND DESALINATION PLANT | | | |

WILDLIFE REFUGE:

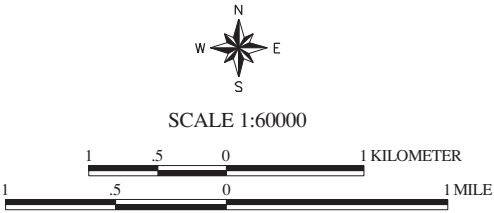
| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--------------------|--------------------------------------|--|--------------|
| 127 | BVI BIRD SANCTUARY | BVI CONSERVATION AND FISHERIES DEPT. | CHIEF CONSERVATION AND FISHERIES OFFICER | 284/494-5681 |

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.

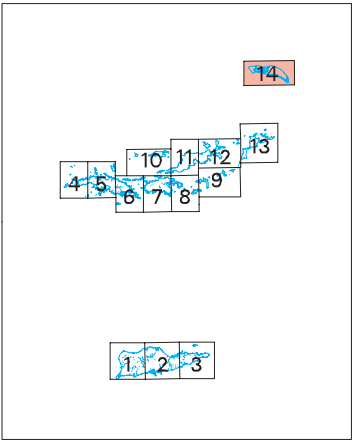
ENVIRONMENTAL SENSITIVITY INDEX MAP



- SHORELINE HABITATS (ESI)
- 1A EXPOSED ROCKY CLIFFS
 - 1B EXPOSED, SOLID MAN-MADE STRUCTURES
 - 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK
 - 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
 - 4 COARSE-GRAINED SAND BEACHES
 - 5 MIXED SAND AND GRAVEL BEACHES
 - 6A GRAVEL BEACHES
 - 6B RIPRAP
 - 7 EXPOSED TIDAL FLATS
 - 8A SHELTERED ROCKY SHORES
 - 8B SHELTERED, SOLID MAN-MADE STRUCTURES
 - 9A SHELTERED TIDAL FLATS
 - 9B SHELTERED VEGETATED LOW BANKS
 - 10D MANGROVES
 - SALT- AND BRACKISH-WATER MARSHES
 - FRESHWATER MARSHES
 - FRESHWATER SWAMPS
 - FRESHWATER SCRUB/SHRUB



Not For Navigation
Published: July 2000
Published at Seattle, Washington
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division



VIRGIN ISLANDS - ESIMAP 14

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| 19 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Black-necked stilt | | | | | X | X | X | X | X | X | X | X | | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | | X | X | X | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Shorebirds | | | | X | X | X | X | | | X | X | X | X | X | | - |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 190 | American coot | | | | X | X | X | X | X | X | X | X | X | X | X | | - |
| | Black-necked stilt | | | | | X | X | X | X | X | X | X | | | | | APR-OCT |
| | Blue-winged teal | | | | X | X | X | X | | | | | | X | X | X | - |
| | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Caribbean coot | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Common moorhen | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Greater flamingo | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | APR-SEP |
| | Gulls | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Least tern | S | E | | | X | X | X | X | X | | | | | | | - |
| | Ruddy duck | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Sandwich tern | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-AUG |
| | Shorebirds | | | | X | X | X | X | | | X | X | X | X | | | - |
| | Snowy plover | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-AUG |
| | Terns | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | White-cheeked pintail | S | E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC |
| | Wilson's plover | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUL |
| 191 | Brown pelican | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Magnificent frigatebird | | | | X | X | X | X | X | X | X | X | X | X | X | X | - |
| | Osprey | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-JUN |
| | Wading birds | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-JUL |

FISH:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawning Eggs | Larvae | Juveniles | Adults |
|------|--------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------|-----------|---------|
| 1 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Reef fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 2 | Pelagic fish | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |

INVERTEBRATE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Spawn/Mate Eggs | Larvae | Juveniles | Adults |
|------|-------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------|-----------|---------|
| 188 | Caribbean spiny lobster | | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Octopus | | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-APR | - | JAN-DEC |
| | Queen conch | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-OCT | APR-OCT | APR-OCT | JAN-DEC |

MARINE MAMMAL:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving |
|------|----------------|-----|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| 1 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 2 | Dolphins | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| | Whales | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - |
| 3 | Sperm whale | S/F | E/E | LOW | X | X | X | X | X | X | | | X | X | X | X | - | - |
| 4 | Humpback whale | S/F | E/E | MODERATE | X | X | X | X | | | | | | | X | X | NOV-MAY | NOV-MAY |

REPTILE:

| RAR# | Species | S/F | T/E | Conc | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Juveniles | Adults |
|------|------------------------|-----|-----|------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|---------|
| 146 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 156 | Green sea turtle | S/F | E/T | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Hawksbill sea turtle | S/F | E/E | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | Leatherback sea turtle | S/F | E/E | | | X | X | X | X | X | X | | | | | | MAR-JUL | MAY-SEP | MAY-SEP | MAR-AUG |
| 192 | Anegada ground iguana | F | E | | X | X | X | X | X | X | X | X | X | X | X | X | JUN-JUL | SEP-OCT | JAN-DEC | JAN-DEC |

=====

HUMAN USE RESOURCES:

WILDLIFE REFUGE:

| HUN# | Name | Owner/Manager | Contact | Phone |
|------|--|--------------------------|---------|--------------|
| 124 | ANEGADA WESTERN SALT PONDS RAMSAR SITE | BVI NATIONAL PARKS TRUST | | 284/494-5681 |

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.