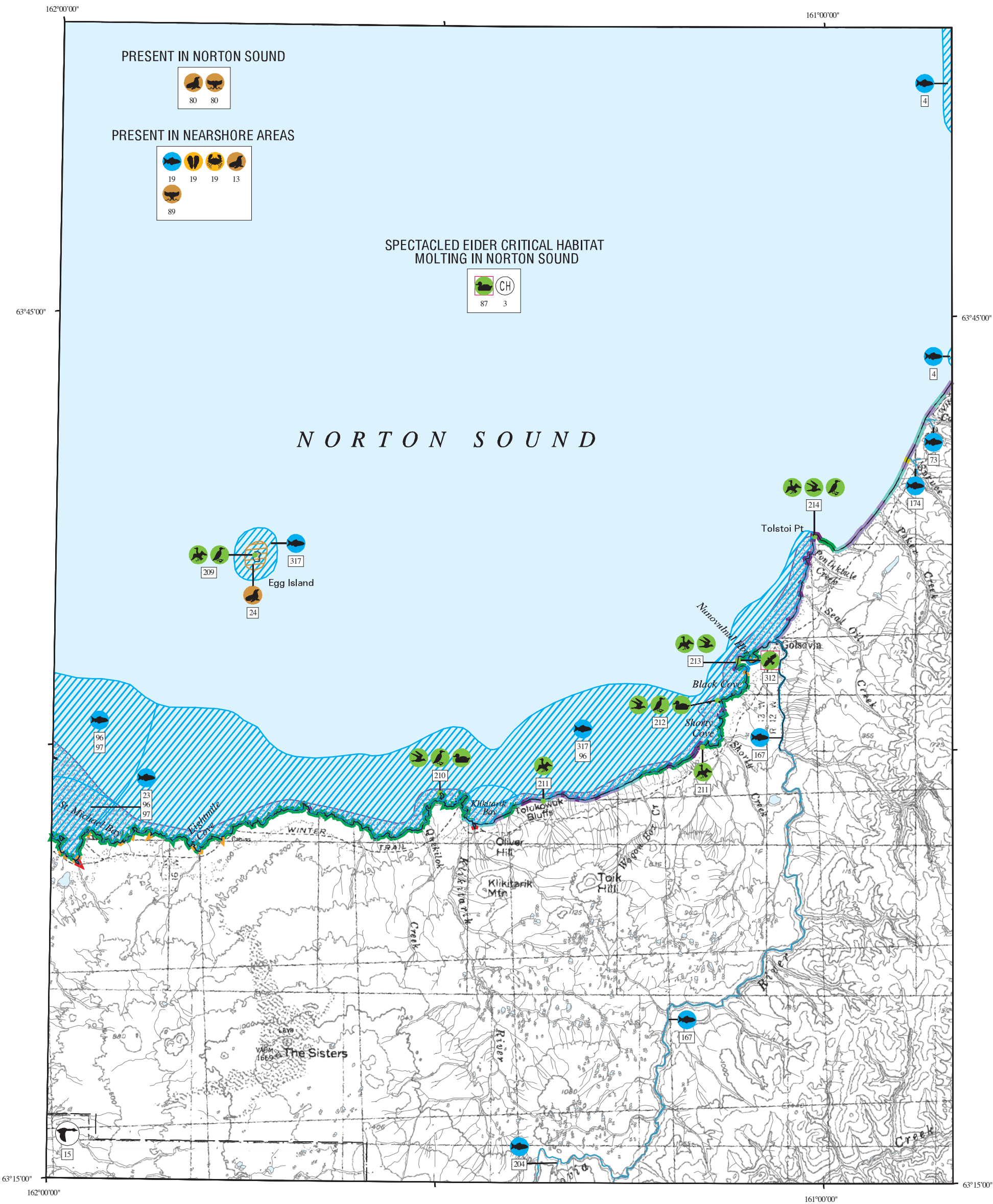


ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

- 1A EXPOSED ROCKY SHORES
- 1B EXPOSED, SOLID MAN-MADE STRUCTURES
- 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK, MUD, OR CLAY
- 2B EXPOSED SCARPS AND STEEP SLOPES IN CLAY
- 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
- 3B SCARPS AND STEEP SLOPES IN SAND
- 3C TUNDRA CLIFFS
- 4 COARSE-GRAINED SAND BEACHES
- 5 MIXED SAND AND GRAVEL BEACHES
- 6A GRAVEL BEACHES
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED ROCKY SHORES AND SHELTERED SCARPS IN MUD AND CLAY
- 8B SHELTERED, SOLID MAN-MADE STRUCTURES
- 8C SHELTERED RIPRAP
- 8E PEAT SHORELINES
- 9A SHELTERED TIDAL FLATS
- 9B SHELTERED, VEGETATED LOW BANKS
- 10A SALT- AND BRACKISH-WATER MARSHES
- 10D SCRUB-SHRUB WETLANDS
- 10E INUNDATED, LOW-LYING TUNDRA

Not For Navigation
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Hazardous Materials Response Division

Northwest Arctic, AK

ESI-29

NW ARCTIC, AK - ESIMAP 29

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S/F | T/E | Conc. | J | F | M | A | M | J | J | A | S | O | N | D | Pre-nest | Nesting | Post-nest |
|------|---------------------------|-----|-----|---------|---|---|---|---|---|---|---|---|---|---|---|---|----------|---------|-----------|
| 87 | Spectacled eider | S/F | C/T | 4030 | | | | | | | | X | X | X | | | - | - | - |
| 209 | Black-legged kittiwake | | | 700 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Common murre | | | 1960 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Horned puffin | | | 210 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Parakeet auklet | | | 23 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Pelagic cormorant | | | 10 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Thick-billed murre | | | 40 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Tufted puffin | | | 25 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| 210 | Arctic tern | | | 4 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Common eider | | | 25 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Glaucous gull | | | 8 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Horned puffin | | | 30 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| 211 | Pelagic cormorant | | | 8 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| 212 | Arctic tern | | | 8 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Common eider | | | UNKNOWN | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Glaucous gull | | | UNKNOWN | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Horned puffin | | | 100 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Tufted puffin | | | 2 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| 213 | Glaucous gull | | | UNKNOWN | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Pelagic cormorant | | | 18 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| 214 | Glaucous gull | | | 55 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Horned puffin | | | 14 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| | Pelagic cormorant | | | 65 | | | | X | X | X | X | X | X | X | | | APR-MAY | JUN-JUL | AUG-OCT |
| 312 | American peregrine falcon | S | C | | | | | X | X | X | X | X | X | | | | - | APR-SEP | - |

| 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 |
| 4 | Pacific herring | | | | | | | | | X | X | X | X | X | | | MAY-JUN | MAY-JUL | MAY-JUL | JUN-JUL | APR-SEP |
| 19 | Chinook salmon | | | | | | | | | X | X | X | | | | | - | - | - | MAY-JUL | JUN-JUL |
| | Chum salmon (dog) | | | | | | | | | X | X | X | X | | | | - | - | - | MAY-JUL | JUN-AUG |
| | Coho salmon (silver) | | | | | | | | | X | X | X | X | | | | - | - | - | MAY-JUL | AUG-AUG |
| | Dolly varden | | | | | | | | | X | X | X | X | X | X | | - | - | - | MAY-JUL | AUG-OCT |
| | Pink salmon (humpy) | | | | | | | | | X | X | X | | | | | - | - | MAY-JUL | MAY-JUL | JUN-JUL |
| | Rainbow smelt | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | JAN-DEC |
| | Saffron cod | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | JAN-DEC |
| | Starry flounder | | | | | | | | | X | X | X | | | | | - | - | - | JUN-AUG | JUN-AUG |
| 23 | Sheefish | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | NOV-APR |
| 73 | Dolly varden | | | | X | X | X | X | X | X | X | X | X | X | X | X | AUG-OCT | AUG-DEC | DEC-JUN | JAN-DEC | JAN-DEC |
| 96 | Capelin | | | | | | | | | X | X | X | | | | | JUN-JUN | JUN-JUL | JUN-AUG | - | JUN-AUG |
| | Whitefish | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| 97 | Pacific herring | | | VERY HIGH | X | X | X | X | X | X | X | X | X | X | X | X | MAY-JUN | MAY-JUL | MAY-JUL | JUN-JUL | NOV-SEP |
| | | | | | | | | | | | | | | | | | | | | NOV-APR | |
| 167 | Chinook salmon | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-DEC | DEC-JUL | JAN-DEC | JUL-AUG |
| | Chum salmon (dog) | | | | X | X | X | X | X | | X | X | X | X | X | X | JUL-SEP | JUL-DEC | DEC-MAY | MAY-MAY | JUL-SEP |
| | Coho salmon (silver) | | | | X | X | X | X | X | X | X | X | X | X | X | X | AUG-SEP | AUG-DEC | DEC-JUN | JAN-DEC | AUG-SEP |
| | Dolly varden | | | | X | X | X | X | X | X | X | X | X | X | X | X | AUG-OCT | AUG-DEC | DEC-JUN | JAN-DEC | JAN-DEC |
| | Pink salmon (humpy) | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-DEC | DEC-JUN | MAY-JUN | JUL-AUG |
| | Whitefish | | | | X | X | X | X | X | X | X | X | X | X | X | X | SEP-OCT | SEP-DEC | DEC-JUN | JAN-DEC | JAN-DEC |
| 174 | Dolly varden | | | | X | X | X | X | X | X | X | X | X | X | X | X | AUG-OCT | AUG-DEC | DEC-JUN | JAN-DEC | JAN-DEC |
| | Pink salmon (humpy) | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-DEC | DEC-JUN | MAY-JUN | JUL-AUG |
| 204 | Chinook salmon | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | JUL-DEC | DEC-JUL | JAN-DEC | JUL-AUG |
| | Coho salmon (silver) | | | | X | X | X | X | X | X | X | X | X | X | X | X | AUG-SEP | AUG-DEC | DEC-JUN | JAN-DEC | AUG-SEP |
| | Dolly varden | | | | X | X | X | X | X | X | X | X | X | X | X | X | AUG-OCT | AUG-DEC | DEC-JUN | JAN-DEC | JAN-DEC |
| 317 | Pacific herring | | | VERY HIGH | | | | X | X | X | X | X | X | | | | MAY-JUN | MAY-JUL | MAY-JUL | JUN-JUL | APR-SEP |

| 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 |
| 19 | Alaska razor clam | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | - |
| | Butter clam | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | - |
| | Crenulate astarte | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | - |
| | Helmet crab | | | | X | X | X | X | | X | X | | | | X | X | - | - | - | - | - |
| | Pinkneck clam | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | - |
| | Siberia softshell clam | | | | X | X | X | X | X | X | X | X | X | | X | X | - | - | - | - | - |
| | Softshell clam | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | - |

| MARINE MAMMAL: | | | | | | | | | | | | | | | | | | | | |
|----------------|--------------|-----|-----|-------|---|---|---|---|---|---|---|---|---|---|---|---|--------|---------|---------|---------|
| RAR# | Species | S/F | T/E | Conc. | J | F | M | A | M | J | J | A | S | O | N | D | Mating | Calving | Pupping | Molting |
| 13 | Ringed seal | | | | X | X | X | X | X | X | | | | X | X | X | - | - | MAR-MAY | MAR-JUN |
| 24 | Walrus | | | | | | | | X | X | | | X | X | | | - | - | - | - |
| 80 | Bearded seal | | | | X | X | X | X | X | X | | | | | X | X | - | - | - | - |
| | Gray whale | | | | | | | | X | X | X | X | X | X | X | | - | - | - | - |
| | Spotted seal | | | | | | | | | X | X | X | X | X | X | | - | - | - | - |
| | Walrus | | | HIGH | | | | | X | X | | | | | | | - | - | - | - |
| 89 | Beluga whale | | | HIGH | | | | | X | X | | | | | | | - | - | - | - |

HUMAN USE RESOURCES:

| CRITICAL HABITAT: | | | |
|-------------------|-----------------------------------|----------------------------|--------------|
| HUN# | Name | Owner | Phone |
| 3 | SPECTACLED EIDER CRITICAL HABITAT | | 907/271-2781 |
| | | US FISH & WILDLIFE SERVICE | |

| WILDLIFE REFUGE: | | | |
|------------------|--------------------------------------|----------------------------|--------------|
| HUN# | Name | Owner | Phone |
| 15 | YUKON DELTA NATIONAL WILDLIFE REFUGE | | 907/543-3151 |
| | | US FISH & WILDLIFE SERVICE | |

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.