

ENVIRONMENTAL SENSITIVITY INDEX — SHELIKOF STRAIT REGION, ALASKA

SHORELINE TYPES

The entire shoreline to the study area was classified during low-altitude overflights in summer 1980. The following list presents the determined shoreline types ranked in order of increasing sensitivity of spilled oil. Environments 8, 9, and 10 are most sensitive and deserve priority protection during a spill incident.

- Sensitivity ↓
1. Exposed rocky headlands.
 2. Wave-cut platforms.
 3. Fine/medium-grained sand beaches.
 4. Coarse-grained sand beaches.
 5. Exposed tidal flats (low biomass).
 6. Mixed sand and gravel beaches.
 7. Gravel beaches.
 - 7A. Exposed tidal flats (moderate biomass).
 8. Sheltered rocky shores.
 9. Sheltered tidal flats.
 10. Marshes.

BIOLOGICAL RESOURCES

The biological resources of the study site were determined during the 1980 field survey and from other investigations. Areas having important biological resources should be given high priority for protection. The symbols used to designate these areas are indicated below:

MARINE MAMMALS

- Seals and walruses Pupping or haulout grounds
- Sea otters Feeding, pupping, or haulout grounds

MARINE BIRDS

- Gulls and terns Rookeries and critical forage areas
- Diving birds Rookeries and critical forage area

FISHES

- Salmon Spawning areas or runs (hatched lines indicate fish runs)

SHELLFISH

- Clams or mussels Abundant clam areas

OTHER

- Specific feeding areas

SOCIOECONOMIC INFORMATION

Areas of particularly important socioeconomic values are indicated to provide guidance during the response effort. At the indicated field stations, both biologic and geologic information were collected.

- Mining lease sites
- Forest preserves
- Archaeological sites
- Field stations
- Private properties
- Landing strips
- Tidal lease sites

PRIMARY REFERENCES

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KEY TO SPECIES

MAMMALS

- T 1. Northern (Steller) sea lion (*Eumetopias jubatus*)
2. Harbor seal (*Phoca vitulina*)
- T 7. Sea otter (*Enhydra lutris*)

SHELLFISH

28. Razor clam (*Siliqua patula*)

BIRDS

- A. Numerous species of birds
8. Double-crested cormorant (*Phalacrocorax auritus*)
10. Pelagic cormorant (*Phalacrocorax pelagicus*)
28. Harlequin duck (*Histrionicus histrionicus*)
36. Glaucous-winged gull (*Larus glaucescens*)
41. Mew gull (*Larus canus*)
46. Common murre (*Uria aalge*)
47. Pigeon guillemot (*Cephus columba*)
51. Tufted puffin (*Lunda cirrhata*)
68. Black oystercatcher (*Haematopus bachmani*)
- E 76. Northern bald eagle (*Haliaeetus leucocephalus*)
79. Cormorant (*Phalacrocorax sp.*)
80. Arctic tern (*Sterna paradisaea*)
81. Horned puffin (*Fratercula corniculata*)
83. Kittiwake (*Rissa sp.*)
84. Parakeet auklet (*Cyclorhynchus psittacula*)
99. Red-faced cormorant (*Phalacrocorax urile*)
100. Black-legged kittiwake (*Rissa tridactyla*)
101. Aleutian tern (*Sterna aleutica*)
103. Common eider (*Somateria mollissima*)
104. Murre (*Uria sp.*)
105. Thick-billed murre (*Uria lomvia*)

FISH

68. Chinook Salmon (king) (*Oncorhynchus tshawytscha*)
69. Coho salmon (silver) (*Oncorhynchus kisutch*)
70. Pink salmon (humpy) (*Oncorhynchus gorbuscha*)
71. Cockeye salmon (red) (*Oncorhynchus nerka*)
72. Chum salmon (dog) (*Oncorhynchus keta*)

T - THREATENED

E - ENDANGERED

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