

ALASKA LEGISLATURE SPECIAL COMMITTEE / SUBJECT FILES 8672

382 SCOM10: LOCAL GOVERNMENT STUDY 1079

CURRENT RESEARCH

6.30901 INVENTORY AND ANALYSIS OF THE FOREST RESOURCES OF THE NANA REGION

Hays, Hank (907) 276-0939
U.S. Forest Service, State and Private Forestry
2221 E. Northern Lights Blvd., Anchorage, AK 99502 3/79 to 1/80

Venard, Jim, U.S. Forest Service, State and Private Forestry

NORTHWEST: NANA Region. To inventory, map (1:63,360 scale) and assess the forest resources on native-selected lands in the NANA region.

6.30902 HOME RANGE AND FOOD HABITS OF WOLVES IN NORTHWESTERN ALASKA

James, David G. (907) 479-7673
Univ. of Alaska, Coop. Wildlife Research Unit
Fairbanks, AK 99701 7/78 to 6/79

Alaska Dept. of Fish and Game \$2,500

NORTHWEST: To determine the home ranges of radio collared and associated wolves in an area of northwest Alaska in which caribou abundance drastically fluctuates seasonally; to determine the seasonal food habits of the study wolves by scat analysis, observation of wolf and prey interactions, and examination of remains of animals killed by wolves; to determine seasonal prey abundance within the home ranges of the study wolves.

6.30903 ALASKA LEPIDOPTERA SURVEY

Philip, Kenelm W.
Univ. of Alaska, IAB
Fairbanks, AK 99701 Continuing

National Geographic Society

NORTHWEST: Seward Peninsula. To conduct a joint Soviet-U.S. expedition to investigate the insect fauna of the Bendeleben/Darby Mountains, Seward Peninsula, particularly Lepidoptera, Orthoptera and Coleoptera; the basis for a continual joint U.S.-Soviet program on the Beringian insect fauna.

CHAPTER 6.3.1

CARIBOU

- 6.31001 Davis, James L., and Patrick Valkenburg. 1978. Western arctic caribou herd studies. Div. of Game, Alaska Dept. of Fish and Game. Federal Aid in Wildlife Restoration. Projects W-17-8 and W-11-9, Jobs no. 3.19R, 3.20R, and 3.21R. Final Report. 1 vol.
- 6.31002 Fredericksen, Stan S., and Ray Tremblay. 1957. Arctic survey. Unpublished. U.S. Fish and Wildlife Service, Anchorage, AK. 12 pp.
- 6.31003 Lent, Peter C. 1966. Calving and related social behavior in the barren-ground caribou. *Zeitschrift fur Tierpsychologie*. 23:701-756.
- 6.31004 Klein, David R., and Robert G. White. 1978. Parameters of caribou population ecology in Alaska; proceedings of a symposium and workshop. Biological Papers of the University of Alaska. Special Report No. 3. 49 pp.
- 6.31005 Neiland, Kenneth A. 1978. Caribou disease studies. Div. of Game, Alaska Dept. of Fish and Game. Federal Aid in Wildlife Restoration. Projects W-17-4 through W-17-10. Final Report. 68 pp.
- 6.31006 Davis, James L. 1978. Age structure of caribou populations in arctic Alaska. Div. of Game, Alaska Dept. of Fish and Game. Federal Aid in Wildlife Restoration. Project W-17-9, W-17-10. Final Report. 9 pp.

- 6.31007 Thing, Henning. 1977. Behavior, mechanics and energetics associated with winter cratering by caribou in northwestern Alaska. Biological Papers of the University of Alaska. No. 18. 41 pp.
- 6.31008 U.S. Bureau of Land Management. 1976. Environmental analysis record: NANA reindeer grazing application in the Kotzebue-Noatak area. Fairbanks District Office. 105 pp.

CURRENT RESEARCH

6.31901 MANDIBULAR LESIONS IN THE WESTERN ARCTIC CARIBOU HERD

Doerr, Joseph
Univ. of Alaska, Coop. Wildlife Research Unit
Fairbanks, AK 99701

1/76-6/78

Dieterich, Robert A., Univ. of Alaska, IAB

Univ. of Alaska, Coop. Wildlife Research Unit
Univ. of Alaska, IAB

NORTHWEST: To determine the incidence, nature, and probable causes of mandibular lesions in caribou from the western Arctic herd. A final publication has been accepted by the Journal of Wildlife Disease.

6.31902 HOME RANGE USE, SOCIAL STRUCTURE, AND HABITAT SELECTION OF THE WESTERN ARCTIC CARIBOU HERD

Davis, James L.
Alaska Dept. of Fish and Game
1300 College Rd., Fairbanks, Alaska 99701

(907) 452-1531

7/78-12/81

Coady, John W., Alaska Dept. of Fish and Game

U.S. National Park Service
Alaska Dept. of Fish and Game

\$99,659

NORTHWEST: To determine the degree to which groups of caribou in the western Arctic caribou herd are traditional in their use of winter home ranges; to determine the integrity and persistence of social groups during all seasons; and to determine patterns of habitat use during winter with particular reference to the recent fire history of the region.

6.31903 POPULATION DYNAMICS OF THE WESTERN ARCTIC CARIBOU HERD

Doerr, Joseph
Univ. of Alaska, Coop. Wildlife Research Unit
Fairbanks, AK 99701

(907) 479-7673

7/75-12/78

Alaska Dept. of Fish and Game

NORTHWEST: To assess and evaluate important changes that may be occurring in the western Arctic caribou herd by critically analyzing data available on that herd and by analyzing relevant past data on other Alaskan caribou herds that may provide insight into the relationships between population fluctuations and parameters such as sex ratios, age structures, and age specific mortality and recruitment rates; to work in conjunction with the Alaska Department of Fish and Game in the investigation of current population parameters of the western Arctic herd, concentrating primarily on productivity, calf survival, and age structures. Thesis in preparation.

CHAPTER 6.3.2

REINDEER

- 6.32001 Palmer, Lawrence J. 1926. Progress in reindeer grazing investigations in Alaska. U.S. Dept. of Agriculture. Bulletin 1423. 37 pp.
- 6.32002 Palmer, Lawrence J. 1934. Raising reindeer in Alaska. U.S. Dept. of Agriculture. Miscellaneous Publication 207. 41 pp.
- 6.32003 Palmer, Lawrence J. 1945. The Alaska tundra and its use by reindeer. Office of Indian Affairs, U.S. Dept. of the Interior. 28 pp.
- 6.32004 Olson, Dean F. 1969. Alaska reindeer herdsman; a study of native management in transition. Institute of Social, Economic and Government Research, University of Alaska, Fairbanks. SEG Report 22. 156 pp.
- 6.32005 Wright, John M. 1978. Reindeer grazing in relation to bird nesting on the northern Seward Peninsula. Alaska Cooperative Wildlife Research Unit, University of Alaska, Fairbanks. Report for U.S. Fish and Wildlife Service and U.S. National Park Service. 81 pp.
- 6.32006 Lantis, Margaret. 1950. The reindeer industry in Alaska. Arctic. 3(1):27-44.

- 6.32007 Stern, Richard O., Edward L. Arobio, Larry L. Naylor, and Wayne C. Thomas. 1977. Socio-economic evaluation of reindeer herding in relation to proposed national interest lands (d)2 in northwestern Alaska. Final Report to the National Park Service. Institute of Arctic Biology, University of Alaska, Fairbanks. 313 pp.
- 6.32008 Haawen, Seymour , and Lawrence J. Palmer. 1922. Reindeer in Alaska. U.S. Dept. of Agriculture. Bulletin 1089. 74 pp.
- 6.32009 Stern, Richard O. 1977. A selected annotated bibliography of sources on reindeer herding in Alaska. Institute of Arctic Biology, University of Alaska, Fairbanks. Occasional Publications on Northern Life No. 2. 167 pp.

CURRENT RESEARCH

6.32901 DEVELOPMENT OF EMERGENCY AND/OR SUPPLEMENTAL FEEDS FOR REINDEER

Luick, Jack R.
Univ. of Alaska, IAB
Fairbanks, AK 99701

(907) 479-7657

7/77-6/78

U.S. Bureau of Indian Affairs

\$14,000

NORTHWEST: To develop feeds for use during severe climatic conditions.

6.32902 INVESTIGATION OF THE IMMUNIZATION OF REINDEER AGAINST BRUCELLOSIS TYPE 4

Dieterich, Robert A.
Univ. of Alaska, IAB
Fairbanks, AK 99701

(907) 479-7166

9/77-9/80

U.S. Dept. of Agriculture

\$15,000

NORTHWEST: To develop a vaccine to control brucellosis in Alaskan reindeer.

6.32903 EDUCATIONAL ACTIVITIES-REINDEER HERDING

Luick, Jack R.
Univ. of Alaska, IAB
Fairbanks, AK 99701

(907) 479-7657

Continuing

Reindeer Herders Association

\$31,000

NORTHWEST: Nome. To provide advice on general herd health and management practices including field techniques during harvesting, translation of key materials and maintenance of the slaughter house in Nome.

6.32904 BIOLOGICAL CONSEQUENCES AND ECONOMIC ADVANTAGES OF CUTTING AND MARKETING
REINDEER ANTLER

Luick, Jack R.
Univ. of Alaska, IAB
Fairbanks, AK 99701

(907) 479-7657

7/77-6/78

U.S. Bureau of Indian Affairs

\$9,500

NORTHWEST:

CHAPTER 6.4
AQUATIC ANIMALS

- 6.40001 Holmquist, Charlotte. 1973. Fresh-water polychaete worms of Alaska with notes on the anatomy of Manayunkia speciosa Leidy. Zoologische Jahrbucher; Abteilung fur Systematik Geographie und Biologie der Tiere. 100:497-516.
- 6.40002 Holmquist, Charlotte. 1967. Marenzelleria wireni Augener - a polychaete found in fresh waters of northern Alaska - with taxonomical considerations on some related spionid worms. Zeitschrift fur Zoologische Systematik und Evolution-forschung. 5(3):298-313.
- 6.40003 Bowman, Thomas E., and Charlotte Holmquist. 1975. Asellus (Asellus) alaskensis n. sp., the first Alaskan Asellus, with remarks on its Asian affinities (Crustacea: Isopoda: Asellidae). Proceedings of the Biological Society of Washington. 88(7):59-72.
- 6.40004 Tash, Jerry C. 1971. Some crustacean zooplankton of the Noatak River area, northern Alaska. Arctic. 24:108-112.
- 6.40005 Wigutoff, Norman B., and Clarence J. Carlson. 1950. A survey of the commercial fishery possibilities of Seward Peninsula area, Kotzebue Sound, and certain inland rivers and lakes in Alaska. U.S. Fish and Wildlife Service. Fishery Leaflet 375. 24 pp.
- 6.40006 Holmquist, Charlotte. 1975. Lakes of northern Alaska and northwestern Canada and their invertebrate fauna. Zoologische Jahrbucher; Abteilung fur Systematik Okologic und Geographie der Tiere. 102(3):333-484.

- 6.40007 Uzman, J. R., and M. N. Hesselholt. 1957. New host and locality record for Triaenophorus crassus Forel (Cestoda: Pseudophylliidea). *Journal of Parasitology*. 43(2):205.
- 6.40008 Walters, Vladimir. 1955. Fishes of western arctic America and eastern arctic Siberia. *Bulletin of the American Museum of Natural History*. 106:359-366.
- 6.40009 Barton, Louis H. 1977. Finfish resource surveys in Norton Sound and Kotzebue Sound. Pages 113-194 in *Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, March 1977. Vol. 7. NOAA OCSEAP Research unit 19E.*
- 6.40010 Cooney, R. Ted 1977. Zooplankton and micronekton studies in the Bering-Chukchi/Beaufort Seas. Pages 275-363 in *Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, March 1977. Vol. 10. NOAA OCSEAP Research unit 426.*
- 6.40011 McCaine, Bruce B., Harold O. Hodgins, and William D. Gronlund. 1977. Determine the frequency and pathology of marine animal diseases in the Bering Sea, Gulf of Alaska, and Beaufort Sea. Pages 296-356 in *Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, March 1977. Vol. 11. NOAA OCSEAP Research unit 332.*
- 6.40012 Feder, H. M., and Stephen C. Jewett. 1978. Trawl survey of the epifaunal invertebrates of Norton Sound, Southeastern Chukchi Sea, and Kotzebue Sound. Pages 338-486 in *Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Final Reports, June 1978. Vol. 1. NOAA OCSEAP Research unit 502.*

- 6.40013 Alaska Dept. of Fish and Game. 1978. Alaska's fisheries atlas. Anchorage. 2 vols.
- 6.40014 Alaska Dept. of Fish and Game. 1977. A fish and wildlife resource inventory of western and arctic Alaska, Vol. 2-- Fisheries. Unpublished. Report for the Alaska Coastal Management Program. 340 pp.
- 6.40015 Johnson, Martin W. 1953. Studies on plankton of the Bering and Chukchi Seas and adjacent areas. Pages 480-500 in Proceedings of the 7th Pacific Science Conference.
- 6.40016 McPhail, John D. 1966. The Coregonus autumnalis complex in Alaska and northwestern Canada. Journal of the Fisheries Research Board of Canada. 23(1):141-148.

CHAPTER 6.4.1

FRESHWATER AND ANADROMOUS FISH

- 6.41001 Fiscus, Clifford H. 1956. Salmon racial sampling in the areas north of Bristol Bay-1956. U.S. Fish and Wildlife Service. Pacific Salmon Investigations. 17 pp.
- 6.41002 Roguski, Eugene A. 1970. Monitoring and evaluation of arctic waters with emphasis on the North Slope drainages. Div. of Sport Fish, Alaska Dept. of Fish and Game. Federal Aid in Fish Restoration. Project F-9-2, Job no. 15-C. Annual Progress Report, Vol. 11.
- 6.41003 Winslow, Peter C. 1969. Investigation and cataloging of sport fish and sport fish waters in Interior Alaska--char in northwestern Alaska. Pages 319-332 in Div. of Sport Fish, Alaska Dept. of Fish and Game. Federal Aid in Fish Restoration. Project F-9-1, Job no. 15-A. Annual Progress Report, Vol. 10.
- 6.41004 Mattson, Chester R. 1962. Chum salmon resources of Alaska from Bristol Bay to Point Hope. U.S. Fish and Wildlife Service. Special Scientific Report--Fisheries no. 425. 22 pp.
- 6.41005 Merrell, Theodore R. 1970. Alaska's fishery resources: the chum salmon. U.S. Bureau of Commercial Fisheries. Fishery Leaflet 632. 7 pp.
- 6.41006 Atkinson, C. E., J. H. Rose, and T. O. Duncan. 1966. Salmon of the North Pacific Ocean. Part 4. Spawning populations of North Pacific salmon in the United States. International North Pacific Fisheries Commission. Bulletin no. 23.

- 6.41007 Galerman, Donna M., and Howard J. Craven. 1952. The Alaska sheefish: Description and proximate composition. Commercial Fisheries Review. 14(4):22-23.
- 6.41008 Hurd, Charles L. 1972. Kotzebue area sheefish investigations, 1971. Div. of Commercial Fisheries, Alaska Dept. of Fish and Game, Nome. Fishery Bulletin 16.
- 6.41009 Alaska, University, Arctic Environmental Info. and Data Ctr. 1975. Anadromous fish inventory, Noatak National Arctic Range, Alaska, and associated area of ecological concern. Report for U.S. Fish and Wildlife Service. 46 pp.
- 6.41010 Alaska, University, Arctic Environmental Info. and Data Ctr. 1975. Anadromous fish inventory, Selawik National Wildlife Refuge, Alaska, and associated area of ecological concern. Report for U.S. Fish and Wildlife Service. 47 pp.
- 6.41011 Yanagawa, Carl M. 1971. Kotzebue chum salmon tagging project, 1966-1968. Div. of Commercial Fisheries, Alaska Dept. of Fish and Game, Anchorage. Fishery Bulletin 7. 32 pp.
- 6.41012 Alt, Kenneth T. 1968 through 1970. Sheefish and pike investigations of the upper Yukon and Kuskokwim drainages with emphasis on Minto Flats drainages. Sport Fish Div., Alaska Dept. of Fish and Game. Federal Aid in Fish Restoration. Progress reports. Vols. 9, 10, 11.
- 6.41013 Lebida, Robert C. 1971. Kotzebue Sound sheefish investigations, 1970. Alaska Dept. of Fish and Game. Arctic-Yukon-Kuskokwim Special Report No. 2.

- 6.41014 Alt, Kenneth T. 1971 through 1975. A life history study of sheefish and whitefish in Alaska. Sport Fish Div., Alaska Dept. of Fish and Game, Federal Aid in Fish Restoration. Study R-11. Vols. 12-16.
- 6.41015 Alt, Kenneth T. 1976. Age and growth of broad whitefish, Coregonus nasus. Transactions of the American Fisheries Society. 105(4):526-528.
- 6.41016 Alt, Kenneth T. 1977. Movements of inconnu, Stenodus leucichthys, in Alaska. Journal of the Fisheries Research Board of Canada. 34:129-133.
- 6.41017 Alt, Kenneth T. 1978. Life history study of sheefish in Alaska. Div. of Sport Fish, Alaska Dept. of Fish and Game. Federal Aid in Fish Restoration. Study R-11. Vol. 19. 22 pp.

CHAPTER 6.4.2

MARINE FISH

- 6.42001 Pereyra, Walter T., and Robert J. Wolotira. 1977. Baseline studies of fish and shellfish resources of Norton Sound and the southeastern Chukchi Sea. Pages 288-319 in Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, March 1977. Vol. 8. NOAA OCSEAP Research unit 175.
- 6.42002 Andriashev, Anatoly P. 1955. A contribution to the knowledge of the fisheries from the Bering and Chukchi Seas. U.S. Fish and Wildlife Service. Special Scientific Report-- Fisheries no. 145. 81 pp.
- 6.42003 Pruter, Alonzo T., and Dayton L. Alverson. 1962. Abundance, distribution, and growth of flounders in the southeastern Chukchi Sea. Journal du Conseil. 27(1):81-99.

CURRENT RESEARCH

6.42901 FINFISH RESOURCE SURVEYS IN NORTON SOUND AND KOTZEBUE SOUND

Barton, Louis H.
Alaska Dept. of Fish and Game/Commercial Fish Div.
333 Raspberry Road, Anchorage, AK 99502

(907) 344-0541

3/76-9/78

U.S. Bureau of Land Management

NORTHWEST: Norton and Kotzebue Sounds. To determine the spatial and temporal distribution and relative abundance of pelagic finfish in the coastal waters of Norton and Kotzebue Sounds; to determine timing and routes of juvenile salmon migrations as well as monitor age and growth characteristics; to determine spatial and temporal distribution and relative abundance of spawning populations of herring and other forage fish; to monitor egg density and distribution and types of spawning substrates utilized; to monitor subsistence utilization of fishery resources by local residents.

6.42902 NORTON SOUND-KOTZEBUE SALMON STUDIES

Kuhlmann, Frederic W.
Alaska Dept. of Fish and Game/Commercial Fish Div.
P.O. Box 862, Nome, AK 99762

(907) 443-5167

7/77-6/82

State of Alaska
U.S. NOAA/BLM OCSEAP

\$76,900

MARINE and NORTHWEST: Norton and Kotzebue Sounds. To identify and evaluate potential sites for salmon escapement enumeration in Golovin; to determine relative magnitudes of chum salmon escapements to the Noatak River.

6.42903 KOTZEBUE CHUM SALMON FORECAST STUDIES

Kuhlmann, Frederic W.
Alaska Dept. of Fish and Game/Commercial Fish Div.
P.O. Box 862, Nome, AK 99762

(907) 443-5167

Continuing

State of Alaska

\$42,000

MARINE and NORTHWEST: Kotzebue Sound. To determine the feasibility of forecasting future chum salmon returns to the Kotzebue area.

6.42904 NORTON SOUND-KOTZEBUE SOUND SALMON ESCAPEMENT STUDIES

Kuhlmann, Frederic W.

(907) 443-5167

Alaska Dept. of Fish and Game/Commercial Fish Div.

P.O. Box 862, Nome, AK 99762

Continuing

State of Alaska

\$30,000

NORTHWEST: Norton Sound and Kotzebue. To expand aerial surveys of Norton and Kotzebue Sound drainages.

CHAPTER 6.4.3

MARINE MAMMALS

- 6.43001 Burns, John J., Lewis H. Shapiro, and Francis H. Fay. 1977. The relationships of marine mammal distributions, densities and activities to sea ice conditions. Pages 503-554 in Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, March 1977. Vol. 1. NOAA OCSEAP Research unit 248.
- 6.43002 Braham, Howard W., Clifford H. Fiscus, and David J. Rugh. 1977. Marine mammals of the Bering and southern Chukchi Seas. Pages 1-99 in Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, March 1977. Vol. 1. NOAA OCSEAP Research unit 67.
- 6.43003 Lowry, Lloyd F., Kathryn J. Frost, and John J. Burns. 1977. Trophic relationships among ice inhabiting phocid seals. Pages 303-390 in Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, March 1977. Vol. 1. NOAA OCSEAP Research unit 232.
- 6.43004 Burns, John J., and Thomas J. Eley. 1977. The natural history and ecology of the bearded seal (Erignathus barbatus) and the ringed seal (Phoca hispida). Pages 226-302 in Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, March 1977. Vol. 1. NOAA OCSEAP Research unit 320.

- 6.43005 Fay, Francis H., Robert A. Dieterich, and Larry M. Shults. 1977. Morbidity and mortality of marine mammals--Bering Sea. Pages 161-188 in Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, March 1977. Vol. 1. NOAA OCSEAP Research unit 194.
- 6.43006 Burns, John J. 1970. Remarks on the distribution and natural history of pagophilic pinnipeds in the Bering and Chukchi Seas. Journal of Mammology. 51(3):445-454.
- 6.43007 Burns, John J. 1978. The natural history and ecology of the bearded seal (Erignathus barbatus) and the ringed seal (Phoca hispida). Pages 99-160 in Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, March 1978. Vol. 1. NOAA OCSEAP Research unit 230.
- 6.43008 Lowry, Lloyd F., Kathryn J. Frost, and John J. Burns. 1978. Trophic relationships among ice inhabiting phocid seals. Pages 161-230 in Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports, March 1978. Vol. 1. NOAA OCSEAP Research unit 232.

CURRENT RESEARCH

6.43901 ICE RELATIONSHIPS OF MARINE MAMMAL DISTRIBUTIONS, DENSITIES AND ACTIVITIES TO SEA ICE CONDITIONS

Burns, John J. (907) 452-1531
 Alaska Dept. of Fish and Game
 1300 College Road, Fairbanks, AK 99701 10/77-9/78

Fay, Francis H., Univ. of Alaska, IMS
 Shapiro, Lewis H., Univ. of Alaska, Geophysical Institute

U.S. NOAA/BLM OCSEAP \$61,925

NORTHWEST, ARCTIC, and MARINE: Bering Sea, Chukchi Sea, and Beaufort Sea. To delineate and describe the extent and distribution of regularly occurring marine mammal habitats in Alaskan waters by use of LANDSAT imagery and ground truthing; to determine the physical environmental factors that produce those habitats; to determine how dynamic changes in sea ice characteristics relate to major events in the lives of marine mammals.

6.43902 NATURAL HISTORY AND ECOLOGY OF THE BEARDED SEAL AND THE RINGED SEAL

Burns, John J. (907) 452-1531
 Alaska Dept. of Fish and Game
 1300 College Road, Fairbanks, AK 99701 10/77-9/77

Eley, Thomas J., Alaska Dept. of Fish and Game
 Frost, Kathryn J., Alaska Dept. of Fish and Game

U.S. NOAA/BLM OCSEAP \$90,300

ARCTIC, NORTHWEST, and MARINE: Bering Sea, Chukchi Sea, and Beaufort Sea. To summarize and evaluate existing published and unpublished information on reproduction, distribution, abundance and human dependence on bearded and ringed seals; to acquire productivity and fetal growth rate data; to acquire baseline data on mortality and morbidity of ringed and bearded seals - parasitology, pathology, predation, human harvest. To determine population structure as indicated by harvest composition; to assess regional differences in density and distribution in relation to geographic areas and habitat type.

6.43903 TROPHIC RELATIONSHIPS AMONG ICE INHABITING PHOCID SEALS

Lowry, Lloyd F.
Alaska Dept. of Fish and Game
1300 College Road, Fairbanks, AK 99701

(907) 452-1531

10/77-9/79

Frost, Kathryn J., Alaska Dept. of Fish and Game
Burns, John J., Alaska Dept. of Fish and Game

U.S. NOAA/BLM OCSEAP

\$121,900

NORTHWEST, ARCTIC, and MARINE: Bering Sea, Chukchi Sea, and Beaufort Sea. To examine food habits and trophic relationships among ringed seals, bearded seals, spotted seals, ribbon seals and beluga whales in Alaskan waters. Food habit data will be integrated with other physical and biological information in order to assess impacts of offshore petroleum development on the species being studied.

6.43904 MORBIDITY AND MORTALITY OF MARINE MAMMALS

Fay, Francis H.
Univ. of Alaska, IMS
Fairbanks, AK 99701

(907) 479-7026

6/75-9/79

Dieterich, Robert A., Univ. of Alaska, IAB
Shults, Larry M., Univ. of Alaska, IMS

U.S. NOAA/BLM OCSEAP

\$60,000

NORTHWEST, ARCTIC, and MARINE: Chukchi Sea, Chirikov Basin, Kotzebue Sound, and Bering Sea. To determine by field and literature studies the incidence of diseases presently existing in marine mammals for use in evaluating future impacts of oil development.

CHAPTER 6.5

BIRDS

- 6.50001 Grinnell, Joseph. 1900. The varied thrush in summer. Condor. 2:5-7.
- 6.50002 Divoky, George J. 1977.. The distribution, abundance and feeding ecology of birds associated with pack ice. Pages 525-573 in Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, March 1977. Vol. 2. NOAA OCSEAP Research unit 196.
- 6.50003 Lensink, Calvin J., James C. Bartonek, and Craig S. Harrison. 1976. Seasonal distribution and abundance of marine birds. Part 2. Aerial Surveys. Pages 1-98 in Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, April 1976. Vol. 4. NOAA OCSEAP Research unit 337.
- 6.50004 Harrison, Craig S. 1977. Seasonal distribution and abundance of marine birds. Part 2. Aerial surveys of marine birds. Pages 285-593 in Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, March 1977. Vol. 3. NOAA OCSEAP Research unit 337.
- 6.50005 Bailey, Alfred M. 1926. A report on the birds of northwestern Alaska and regions adjacent to Bering Strait. Part IX. Condor. 28(3):121-126.

- 6.50006 Connors, Peter G., and Robert W. Risebrough. 1978. Shorebird dependence on arctic littoral habitats. Pages 84-166 in Environmental Assessment of the Alaskan Outer Continental Shelf. Principal Investigators' Annual Reports, October 1978. Vol. 2. NOAA OCSEAP Research unit 172.
- 6.50007 Hines, John Q. 1963. Birds of the Noatak River, Alaska. Condor. 65(5):410-425.
- 6.50008 Mickelson, P. G., Douglas Schamel, Diane Tracy, and Anne lonson. 1977. Avian community ecology at two sites on Espenberg Peninsula in Kotzebue Sound, Alaska. Pages 1-74 in Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Annual Reports, March 1977. Vol. 5. NOAA OCSEAP Research unit 441.
- 6.50009 Hansen, Henry A., Sigurd T. Olson, Peter E. K. Shepherd, and Vernon Berns. 1957. Selawik production studies and banding. Pages 1-5 in Alaska Game Commission. Federal Aid in Wildlife Restoration. Project W-3-R-12. Job Completion Report. Vol. 12, No. 5.
- 6.50010 Nelson, Urban C., Edward F. Chatelmin, Robert F. Scott, and June Eliason. 1949. Waterfowl studies: Aerial surveys, banding and nesting studies; Kotzebue Sound. Pages 19-28 in Alaska Game Commission. Federal Aid in Wildlife Restoration. Project 3-R-4. Quarterly Report. Vol. 4, No. 1.
- 6.50011 Shepherd, Peter E. K. 1955. Migratory waterfowl studies--nesting and banding--Selawik area. Pages 34-49 in Alaska Game Commission. Federal Aid in Wildlife Restoration. Project . Progress Report. Vol. 10, No. 1.

- 6.50012 Degange, Anthony R., and Arthur L. SOWls. 1978. A survey of the Chamisso Island National Wildlife Refuge, 11-14 August, 1977. Unpublished. Office of Biological Services--Coastal Ecosystems, U.S. Fish and Wildlife Service, Anchorage, AK. Field Report 77-040. 17 pp.
- 6.50013 King, James G., and Bruce Conant. 1978. Alaska-Yukon waterfowl breeding pair survey, May 17 to June 11, 1978. Unpublished. U.S. Fish and Wildlife Service, Juneau, AK.
- 6.50014 Timm, Dan. 1975. Report of survey and inventory activities--waterfowl. Div. of Game, Alaska Dept. of Fish and Game. Federal Aid in Wildlife Restoration. Project W-17-7. Vol. 6. 53 pp.
- 6.50015 Timm, Dan. 1976. Report of survey and inventory activities--waterfowl. Div. of Game, Alaska Dept. of Fish and Game. Federal Aid in Wildlife Restoration. Project W-17-8. Vol. 7. 61 pp.
- 6.50016 Timm, Dan. 1977. Report of survey and inventory activities--waterfowl. Div. of Game, Alaska Dept. of Fish and Game. Federal Aid in Wildlife Restoration. Project W-17-9. Vol. 8. 37 pp.
- 6.50017 SOWls, Arthur L., Scott A. Hatch, and Calvin J. Lensink. 1978. Catalog of Alaska seabird colonies. U.S. Fish and Wildlife Service. 1 vol.
- 6.50018 Irving, Laurence. 1960. Birds of Anaktuvuk Pass, Kobuk, and Old Crow, a study in arctic adaptation. Smithsonian Institution, Washington, DC. U.S. National Museum. Bulletin 217. 409 pp.

6.50019 Grinnell, Joseph. 1900. Birds of the Kotzebue Sound region,
Alaska. Cooper Ornithological Club of California.
Pacific Coast Avifauna no. 1. 20 pp.

CURRENT RESEARCH

6.50901 THE DISTRIBUTION, ABUNDANCE AND FEEDING ECOLOGY OF BIRDS ASSOCIATED WITH PACK ICE

Divoky, George J. (415) 868-1221
Point Reyes Bird Observatory
4990 State Route 1, Stinson Beach, CA 94970 5/75-9/79

U.S. NOAA/BLM OCSEAP \$50,000

NORTHWEST, ARCTIC, and MARINE: Bering Sea, Chukchi Sea, and Beaufort Sea.
To determine the effect of sea ice on seabird densities and distribution; to
determine the principal prey items of seabirds associated with pack ice.

6.50902 COASTAL SURVEY OF MIGRATORY BIRD POPULATIONS DURING MID-SEPTEMBER 1977 and 1978 FROM PT BARROW TO DILLINGHAM

King, Rodney J. (907) 276-3800
U.S. Fish and Wildlife Service
1011 E. Tudor Road, Anchorage, AK 99503 1977-1978

U.S. Fish and Wildlife Service

STATEWIDE and MARINE: To tabulate populations and migration routes of birds
on the western coast of Alaska during mid-September by means of aerial surveys
immediately along the coastline and adjacent tidal flats and bays.

CHAPTER 7.0
SOCIO-CULTURAL RESOURCES

- 7.00001 Anderson, Douglas D. 1968. A stone-age campsite at the gateway to America. *Scientific American*. 218(6):24-33.
- 7.00002 Anderson, Douglas D. 1970. Akmak, an early archeological assemblage from Onion Portage, northwest Alaska. *Acta Arctica*. Fasc. 16. 80 pp.
- 7.00003 Giddings, James L. 1967. *Ancient men of the Arctic*. Knopf, New York, NY. 391 pp.
- 7.00004 Powers, William Roger 1975. Archeological survey of the proposed Chukchi-Imuruk National Wildlands. Interim Report for the National Park Service. Unpublished. 5 pp.
- 7.00005 Giddings, James L. 1948. Chronology of the Kobuk-Kotzebue Sites. *Tree-Ring Bulletin*. 14(4):26-32.
- 7.00006 Giddings, James L. 1942. Dated sites on the Kobuk River, Alaska. *Tree-Ring Bulletin*. 9(1):2-8.
- 7.00007 Giddings, James L. 1964. *The archaeology of Cape Denbigh*. Brown University Press, Providence, RI. 331 pp.

- 7.00008 Giddings, James L. 1957. Round houses in the western Arctic. *American Antiquity*. 23(2)121-135.
- 7.00009 Anderson, Douglas D. 1977. Archeological surveys of the proposed Cape Krusenstern and Kobuk National Monuments, Alaska. Brown University, Providence, RI. 28 pp.
- 7.00010 Burch, Ernest S. 1974. Eskimos of the Kotzebue Region: Ethnology and culture history. Unpublished. 36 pp.
- 7.00011 Anderson, Douglas D. 1977. Prehistoric and early historic human settlements and resource use areas in the Selawik drainage, Alaska. Brown University, Providence, RI. 23 pp. and 4 appendices.
- 7.00012 Anderson, Douglas D., and Wanni W. Anderson. 1977. Selawik Inupiat (Eskimo) archeological settlements, resources, and subsistence lifeways, northwestern Alaska. Brown University, Providence, RI. 96 pp. and 4 appendices.
- 7.00013 Smith, Valene L. 1966. Kotzebue: A modern Alaskan community. Ph.D. Thesis. University of Utah, Salt Lake City. 160 pp.
- 7.00014 Anderson, Douglas D. 1978. Tulagialq: A transitional near Ipiutak-Ipivtak period archeological site from Kotzebue Sound, Alaska. Final report for U.S. National Park Service. 17 pp.
- 7.00015 Anderson, Douglas D., Ray Bane, Richard K. Nelson, and Wanni W. Anderson. 1977. Kuuvanmiit subsistence: Traditional Eskimo life in the latter twentieth century. U.S. National Park Service. 775 pp.

- 7.00016 Andrews, Elizabeth F. 1976. Report of an archeological inspection of proposed BIA housing lots at Noatak, Alaska. Unpublished. Report for the Bureau of Indian Affairs. 3 pp.
- 7.00017 Alaska Department of Natural Resources. 1978. Alaska's plan for management and conservation of heritage resources 1973-1983. Volume II, The inventory. Office of History and Archaeology, Alaska Div. of Parks, Anchorage. 49 pp.
- 7.00018 Grauman, Melody W. 1977. A historical overview of the Seward Peninsula--Kotzebue Sound area. Report for the U.S. National Park Service, Anchorage, AK. 147 pp.
- 7.00019 Roberts, Helen. 1979. Inuguliq Kamaksriigalikun (growing up with respect); a Northwest Arctic School District profile. Northwest Arctic School District, Kotzebue, AK. 48 pp.
- 7.00020 VanStone, James W. 1955. Archaeological excavations at Kotzebue, Alaska. Anthropological Papers of the University of Alaska. 3(2):75-155.
- 7.00021 Giddings, James L. 1952. The arctic woodland culture of the Kobuk River. University Museum, University of Pennsylvania, Philadelphia. 143 pp.
- 7.00022 Uhl, William R., and Carrie K. Uhl. 1977. Tagiumsinaaqmiit: Ocean dwellers of the Cape Krusenstern area: Subsistence patterns. Anthropology and Historic Preservation, Cooperative Park Studies Unit, University of Alaska, Fairbanks. Occasional Paper 14.

- 7.00023 Hall, Edwin S. 1976. Contributions to anthropology: The interior people of northern Alaska. National Museum of Man, Ottawa, Ontario, Canada. Archaeological Survey of Canada. Mercury Series. Paper No. 49. 391 pp.
- 7.00024 Hall, Edwin S. 1973. Known archaeological resources of the Noatak River basin, northern Alaska, as of January 1973. Report for U.S. National Park Service.
- 7.00025 Uhl, William R., and Carrie K. Uhl. 1979. Nuatakmiit, a study of subsistence use of renewable resources in the Noatak River valley. Anthropology and Historic Preservation, Cooperative Park Studies Unit, University of Alaska, Fairbanks.
- 7.00026 Foote, Don C. 1965. Exploration and resource utilization in northwestern arctic Alaska before 1855. Ph.D. Thesis. McGill University, Montreal, Quebec. 400 pp.

CURRENT RESEARCH

7.00901 PUYUK PROJECT

Pender, Jane(Frances E.)
1753 Alaska Way, Fairbanks, AK 99701

(907) 479-6703
9/78-7/79

Alaska Historical Commission

\$3,500

NORTHWEST and YUKON: Kotzebue and Fairbanks. To tape a life history of Della Keats (Puyuk), traditional healer from Kotzebue. To produce transcripts for deposit in an archive.

7.00902 CAPE KRUSENSTERN PHOTO MAPPING

Hsu, Dick P.
U.S. National Park Service
540 W. 5th Ave., Anchorage, AK 99501

(907) 276-8166

Continuing

U.S. National Park Service

\$82,000

NORTHWEST: Cape Krusenstern. To map the known archeological features and to look for undiscovered features from 1:8,000 scale color and color infrared aerial photos.

7.00903 SELAWIK RIVER ESKIMO ARCHEOLOGY AND MUSEUM PROJECT

Anderson, Douglas D.
Brown University, Dept. of Anthropology
Providence, RI. 02912

(401) 863-3251

9/78

Anderson, Wanni W., Brown University

Northwest Arctic School District

\$5,000

NORTHWEST: Selawik. To conduct an archeological field school and training program for high school students in the prehistory of their own region. Also, to teach the need for preserving their own cultural heritage through the preservation and protection of archeological sites. Finally, to set up and operate properly a local museum for ethnological and archeological specimens.

7.00904 RECONSTRUCTION OF POST-PLEISTOCENE ENVIRONMENTS: THE INTERACTION OF
SUBSISTENCE STRATEGIES AND DISTRIBUTION OF SUBSISTENCE RESOURCES IN NW ALASKA

Anderson, Patricia M.
Brown University, Dept. of Anthropology
Providence, RI. 02912

(401) 863-3251

5/79-9/80

Anderson, Douglas D., Brown University

National Science Foundation

\$6,982

NORTHWEST: Kobuk, Selawik, and Noatak. To reconstruct past climatic and vegetational patterns in NW Alaska from surface pollen data and from lake cores. From these data we hope to delineate areas of high potential for occurrence of subsistence resources. Given this environmental model, the ethnographic and archeological records will be examined and a model for the interaction of subsistence strategies - settlement pattern - habitat will be constructed.

CHAPTER 8.0
PLANNING STUDIES

- 8.00001 U.S. National Park Service, Alaska Planning Group. 1974. Cape Krusenstern National Monument, Alaska, proposed. Final environmental statement. 461 pp.
- 8.00002 U.S. National Park Service, Alaska Planning Group. 1973. Gates of the Arctic National Wilderness Park and Nunamiut National Wildlands, Alaska, a master plan. 49 pp.
- 8.00003 U.S. National Park Service, Alaska Planning Group. 1973. Cape Krusenstern National Monument, a master plan. 42 pp.
- 8.00004 Engineering Computer Optecnomics, Inc. 1977. An assessment of marine transportation costs related to potential port sites in Alaska. Joint Federal-State Land Use Planning Commission for Alaska, Anchorage, AK. Study 25. 37 pp. and 29 appendices.
- 8.00005 Alonso, William , and Edgar Rust. 1976. The evolving pattern of village Alaska. Joint Federal-State Land Use Planning Commission for Alaska. Study 17. 69 pp.
- 8.00006 Alaska Consultants, Inc. 1976. Land use plan: Kotzebue. Report for City of Kotzebue.
- 8.00007 Alaska, University, Arctic Environmental Info. and Data Ctr. 1976. Northwest Alaska community profiles, a background for planning. Report for Alaska Dept. of Community and Regional Affairs. 11 folios.

- 8.00008 U.S. Fish and Wildlife Serv., Bur. of Sport Fish. and Wildlife. 1973. A concept plan for the proposed Selawik National Wildlife Refuge. U.S. Government Printing Office, Washington, D.C. 20 pp.
- 8.00009 Alaska Dept. of Environmental Conservation. 1976. Preliminary inventories of outfalls and solid waste disposal sites in the Alaska coastal zone. Report for Alaska Coastal Management Program. 224 pp.
- 8.00010 Alaska Office of Coastal Management. 1978. State agency information and plans applicable to the coast of Alaska. The Inter-Agency Regional Coastal Planning Team. 200 pp.
- 8.00011 U.S. Dept. of the Interior, Alaska Planning Group. 1974. Proposed Chukchi-Imuruk National Reserve. Final environmental statement. Washington, DC. 763 pp.
- 8.00012 U.S. Dept. of the Interior, Alaska Planning Group. 1974. Proposed Kobuk Valley National Monument. Final environmental statement. Washington, DC. 626 pp.
- 8.00013 Mauneluk Association, Inc. 1974. The NANA region, its resources and development potential. Kotzebue, AK. 289 pp.
- 8.00014 Alaska State Housing Authority. 1971. Kotzebue, Alaska comprehensive development plan. Kotzebue, AK.
- 8.00015 Weeden, Robert B. 1973. Wildlife management and Alaska land use decisions. Institute of Social, Economic and Government Research. University of Alaska, Fairbanks. Occasional Paper No. 8. 51 pp.

- 8.00016 Woolford, Ray. 1954. Notes on village economics and wildlife utilization in arctic Alaska. Unpublished. U.S. Fish and Wildlife Service, Fairbanks, AK. 34 pp.
- 8.00017 U.S. Bureau of Outdoor Recreation, Alaska Field Office. 1976. The Selawik River, a wild and scenic river analysis. Unpublished. 30 pp.
- 8.00018 Alaska State Housing Authority. 1972. Comprehensive planning in rural Alaska, an evaluation of 701 planning in Nome, Bethel, and Kotzebue. Dept. of Planning and Technical Services. 38 pp.
- 8.00019 U.S. Dept. of the Interior, Alaska Planning Group. 1974. Proposed Noatak National Arctic Range. Final environmental statement. Washington, DC. 700 pp.
- 8.00020 U.S. Dept. of the Interior, Alaska Planning Group. 1974. Proposed Selawik National Wildlife Refuge. Final environmental statement. Washington, DC. 631 pp.
- 8.00021 U.S. Army Corps of Engineers. 1957. Harbors and rivers in Alaska. Interim report No. 6. Northwestern Alaska. 120 pp.
- 8.00022 Alaska Dept. of Environmental Conservation. 1977. Village sanitation in Alaska. Alaska Dept. of Environmental Conservation and U.S. Public Health Service, Juneau. 1 vol. (loose-leaf)

CURRENT RESEARCH

8.00901 NANA REGIONAL STRATEGY

Conover, Matthew
Mauneluk Association
P.O. Box 256, Kotzebue, AK 99752

Mauneluk Association
U.S. Dept. of Housing and Urban Dev.

\$75,000

NORTHWEST: NANA Region. To develop a regional plan, community plans, and a management system for coordination. Policies and plans will be developed for land use, subsistence, housing, energy, transportation, public facilities, educational and social services, and economic development. Environmental carrying capacity will be considered for use as a management concept and policy guide.

8.00902 WESTERN AND ARCTIC TRANSPORTATION STUDY

Soden, Larry
Alaska Dept. of Transportation and Public Facilities
University Plaza East, Suite 1, 600 University Ave.,
Fairbanks, AK 99701

(907) 479-4284

1/79-6/80

Burger and Associates
Philleo Associates

Alaska Dept. of Transportation and Public Facilities

ARCTIC, NORTHWEST, and YUKON: To evaluate the present transportation systems in the area; to initiate a system for continually updating transportation information; to identify options for meeting present and future transportation needs; and to develop a strategy for implementing those options.

CHAPTER 9.0
HEALTH STUDIES

- 9.00001 Hanson, Wayne C., and Harvey E. Palmer. 1964. The accumulation of fallout cesium-137 in northern Alaska Natives. Pages 215-225 in Proceedings of the 29th North American Wildlife Conference.
- 9.00002 Palmer, Harvey E., Wayne C. Hanson, Bobby I. Griffin, and Leslie A. Braby. 1965. Radioactivity measured in Alaskan natives, 1962-1964. Science. 147(3658):620.
- 9.00003 Heller, Christine A., and Edward M. Scott. 1964. The Alaska dietary survey, 1956-1961. U.S. Public Health Service. Publication 999-AH-2. 281 pp.
- 9.00004 Lantis, Margaret. 1959. Folk medicine and hygiene; lower Kuskokwim and Nunivak-Nelson Island areas. Anthropological Papers of the University of Alaska. 8(1):1-75.
- 9.00005 Hopla, Cluff E. 1960. Epidemiology of tularemia in Alaska. Arctic Aeromedical Laboratory, U.S. Air Force. Technical Report 59-1.

CHAPTER 10.0

MAPS

- 10.00001 Alaska, University, Arctic Environmental Info. and Data Ctr. 1975. Chukchi Sea: Bering Strait--Icy Cape; physical and biological character of Alaskan coastal zone and marine environment. Anchorage. AEIDC Publication A75 and Sea Grant No. 75-10. 61 pp., 31 maps. (scale, 1:1,000,000).
- 10.00002 Patton, William W., Thomas P. Miller, and Irvin L. Tailleux. 1968. Regional geologic map of the Shungnak and southern part of the Ambler River quadrangles, Alaska. U.S. Geological Survey. Miscellaneous Geologic Investigations Map I-554. (scale, 1:250,000).
- 10.00003 Patton, William W., and Thomas P. Miller. 1966. Regional geologic map of the Hughes quadrangle. U.S. Geological Survey. Miscellaneous Geologic Investigations Map I-459. (scale, 1:250,000).
- 10.00004 Cobb, Edward H. 1972. Metallic mineral resources map of the Survey Pass quadrangle, Alaska. U.S. Geological Survey. Miscellaneous Field Studies Map MF-382. (scale, 1:250,000).
- 10.00005 Cass, J. T. 1959. Reconnaissance geologic map of the Candle quadrangle, AK. U.S. Geological Survey. Miscellaneous Geologic Investigations Map I-287. (scale, 1:250,000).
- 10.00006 Pessel, G. N., and W. P. Brosge. 1977. Preliminary reconnaissance geologic map of Ambler River quadrangle, Alaska. U.S. Geological Survey. Open-File Report 77-28. (scale, 1:250,000).

- 10.00007 Pessel, G. N. 1977. Preliminary reconnaissance geologic map of Survey Pass quadrangle, Alaska. U.S. Geological Survey. Open-File Report 77-27. (scale, 1:250,000).
- 10.00008 Spetzman, L. A. 1963. Terrain study of Alaska, part V: Vegetation. Military Geology Branch, U.S. Geological Survey. (scales, 1:250,000 and 1:2,500,000).
- 10.00009 U.S. Army Corps of Engineers. 1973. Preliminary flood hazard maps. Alaska District. 10 maps. (scales, various).
- 10.00010 Alaska Dept. of Environmental Conservation. 1978. Sources of water pollution and management actions in Alaska. Volume II. Div. of Water Programs. Juneau. (scale, 1:250,000).
- 10.00011 U.S. Bureau of Mines, Alaska Field Operations Center. 1978. Mining claim locations. Open-File Report 20-73. 9 maps. (scale, 1:250,000).
- 10.00012 Preston, James E., William R. Fibich, Thomas H. George, and Peter C. Scorupl. 1977. Kotzebue Sound range and soil inventory maps. U.S. Soil Conservation Service. 16 maps. (scale, 1:63,360).
- 10.00013 Joint Federal-State Land Use Planning Commission for Alaska. 1974. Locateable minerals. Resource Planning Team, Anchorage, AK. (scale, 1:250,000).
- 10.00014 Joint Federal-State Land Use Planning Commission for Alaska. 1974. Watershed boundary and soil associations. Resource Planning Team, Anchorage, AK. (scale, 1:250,000).

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Anchorage, AK. (scale, 1:250,000).
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AK. (scale, 1:250,000).
- 10.00017 Joint Federal-State Land Use Planning Commission for Alaska.
1974. Existing trail system. Resource Planning Team,
Anchorage, AK. (scale, 1:250,000).
- 10.00018 Joint Federal-State Land Use Planning Commission for Alaska.
1974. Geologic explanation. Resource Planning Team,
Anchorage, AK. (scale, 1:250,000).
- 10.00019 Joint Federal-State Land Use Planning Commission for Alaska.
1974. Migratory birds, sea birds, raptors and endangered
species. Resource Planning Team, Anchorage, AK. (scale,
1:250,000).
- 10.00020 Joint Federal-State Land Use Planning Commission for Alaska.
1974. Subsistence. Resource Planning Team, Anchorage,
AK. (scale, 1:250,000).
- 10.00021 Joint Federal-State Land Use Planning Commission for Alaska.
1973. Oil and gas leases. Resource Planning Team,
Anchorage, AK. (scale, 1:250,000).
- 10.00022 Joint Federal-State Land Use Planning Commission for Alaska.
1973. Fisheries resources. Resource Planning Team,
Anchorage, AK. (scale, 1:250,000).

- 10.00023 NANA Regional Corporation, Land Dept. 1974. Historical and cemetery sites. Kotzebue, AK. (scale, 1:250,000).
- 10.00024 NANA Regional Corporation, Land Dept. 1974. Village and regional corporation selections. Kotzebue, AK. (scale, 1:250,000).
- 10.00025 NANA Regional Corporation, Land Dept. 1975. Subsistence priorities. Kotzebue, AK. (scale, 1:250,000).
- 10.00026 Joint Federal-State Land Use Planning Commission for Alaska. 1974. Ecosystems. Resource Planning Team, Anchorage, AK. (scale, 1:250,000).
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- 10.00028 Patton, William W., and Thomas P. Miller. 1968. Regional geologic map of the Selawik and southeastern Baird Mountains quadrangles, Alaska. U.S. Geological Survey. Miscellaneous Geologic Investigations Map I-530. (scale, 1:250,000).
- 10.00029 Cobb, Edward H. 1972. Metallic mineral resource map of the Bendeleben quadrangle, Alaska. U.S. Geological Survey. Miscellaneous Field Studies Map MF-417. (scale, 1:250,000).
- 10.00030 Chakroff, David N. 1977. Alaska coastal land status/land use atlas; Vol. 4 - western and arctic Alaska. Planning and Research Section, Alaska Dept. of Natural Resources, Anchorage. 1 vol. (scale, 1:250,000).

- 10.00031 Alaska Dept. of Fish and Game. 1978. Biophysical boundary maps for Alaska's coastal zone. Anchorage, AK. Report for Alaska Coastal Management Program. 61 maps. (scale, 1:250,000)
- 10.00032 Alaska Dept. of Fish and Game. 1977. Biophysical process maps for Alaska's coastal zone. Anchorage, AK. Report for Alaska Coastal Management Program. 91 maps. (scale, 1:250,000).
- 10.00033 Albert, Nairn R. D. 1979. Interpretation of landsat imagery of the Ambler River quadrangle, Alaska. U.S. Geological Survey. Open-File Report 78-120-J. (scale, 1:250,000).

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	6.50010	6.50011	6.50013	6.50014
	6.50015	6.50016	6.50017	6.50018
	6.50019	7.00001	7.00002	7.00005
	7.00006	7.00008	7.00010	7.00011
	7.00012	7.00015	7.00017	7.00019
	7.00021	7.00023	7.00903	8.00005
	8.00007	8.00008	8.00009	8.00011
	8.00015	8.00016	8.00017	8.00020
	8.00022	8.00901	9.00001	9.00003
	9.00005	10.00001	10.00008	10.00010
	10.00011	10.00012	10.00013	10.00014
	10.00015	10.00016	10.00017	10.00018
	10.00019	10.00020	10.00021	10.00022
	10.00023	10.00024	10.00025	10.00026
	10.00027	10.00028	10.00031	10.00032

Shungnak.....	1.00002	1.00003	1.00004	1.00005
	1.00006	1.00011	2.00004	2.00005
	3.00005	3.00010	3.00012	3.00016
	3.00018	3.00024	3.00025	3.00026
	3.00027	3.00028	3.00029	3.10003
	3.30001	3.40001	3.40005	3.40006
	3.40008	4.00003	4.00009	4.00010
	4.00011	6.00001	6.00004	6.00009
	6.10001	6.10006	6.10008	6.30004
	6.30006	6.30007	6.30008	6.30009
	6.30010	6.30011	6.30012	6.30022
	6.30023	6.30024	6.30901	6.31001
	6.31002	6.31003	6.31006	6.32003
	6.32006	6.32008	6.40007	6.40013
	6.40014	6.41004	6.41006	6.41008
	6.41010	6.41011	6.41012	6.41014
	6.41017	6.50001	6.50007	6.50013
	6.50014	6.50015	6.50016	6.50018
	6.50019	7.00001	7.00002	7.00005
	7.00006	7.00012	7.00015	7.00017
	7.00019	7.00021	8.00005	8.00007
	8.00008	8.00012	8.00016	8.00017
	8.00020	8.00022	8.00901	9.00001
	9.00003	10.00002	10.00008	10.00010
	10.00011	10.00013	10.00014	10.00015
	10.00016	10.00017	10.00018	10.00020
	10.00021	10.00022	10.00023	10.00024
	10.00025	10.00026	10.00027	

Survey Pass.....	1.00002	1.00003	1.00004	1.00005
	3.00025	3.00026	3.00027	3.40002
	6.00004	6.00008	6.00009	6.10012
	6.30007	6.30008	6.30009	6.30010
	6.30011	6.30012	6.30024	6.31006
	6.40013	6.40014	6.50014	6.50015
	6.50016	6.50018	7.00017	8.00002
	10.00004	10.00007	10.00008	10.00010
	10.00013	10.00014	10.00015	10.00016
	10.00017	10.00018	10.00019	10.00020
	10.00021	10.00022	10.00026	10.00027

VILLAGES

Ambler.....	1.00009	3.30001	4.00004	4.00005
	4.00008	4.00009	4.00011	6.00001
	6.30003	6.31001	6.41008	6.41011
	6.41013	6.41014	7.00015	7.00019
	8.00005	8.00007	8.00012	8.00013
	8.00022	8.00901	9.00001	9.00002
	9.00003	10.00009	10.00010	10.00024
	10.00025			

Buckland.....	1.00009	3.10004	3.30001	4.00009
	6.30023	6.31001	6.32001	6.32004
	6.40009	6.41004	7.00019	8.00005
	8.00007	8.00009	8.00011	8.00013
	8.00022	8.00901	10.00009	10.00010
	10.00024	10.00025		

Deering.....	1.00009	2.00003	2.00004	2.00005
	2.00007	3.00025	3.00028	3.10004
	3.10006	3.30001	3.30002	3.40007
	4.00009	6.10004	6.30023	6.31001
	6.32004	6.32006	6.40009	6.41004
	7.00034	7.00007	7.00019	8.00005
	8.00007	8.00009	8.00011	8.00013
	8.00022	8.00901	9.00001	10.00010
	10.00024	10.00025		

Kiana.....	1.00009	3.00034	3.30001	4.00008
	4.00009	6.00001	6.10005	6.31001
	6.31002	6.40005	6.41004	6.41008
	6.41010	6.41011	6.41013	6.41014
	7.00015	7.00019	7.00021	8.00005
	8.00007	8.00012	8.00013	8.00016
	8.00022	8.00901	9.00001	10.00009
	10.00010	10.00024	10.00025	

Kivalina.....	1.00009	1.00011	2.00003	2.00004
	2.00005	2.00007	3.00011	3.00019
	3.00028	3.00034	3.30001	3.30002
	3.30004	3.40011	4.00009	4.00011
	6.00002	6.10006	6.31001	6.31002
	6.31008	6.32001	6.41002	6.41003
	6.41004	6.43004	6.43007	6.43008
	7.00010	7.00019	8.00001	8.00004
	8.00005	8.00007	8.00009	8.00013
	8.00016	8.00022	8.00901	9.00001
	10.00009	10.00010	10.00024	10.00025

Kobuk.....	1.00009	2.00003	2.00004	2.00005
	3.00024	3.10003	3.30001	4.00009
	6.00001	6.30003	6.30004	6.30023
	6.31001	6.31002	6.41008	6.41010
	6.41011	6.41013	6.41014	6.50018
	7.00015	7.00019	7.00904	8.00005
	8.00007	8.00012	8.00013	8.00016
	8.00022	8.00901	9.00001	9.00003
	10.00009	10.00010	10.00024	10.00025

Kotzebue.....	1.00009	2.00001	2.00002	2.00003
	2.00004	2.00005	2.00006	2.00007
	2.00008	3.00016	3.00026	3.00034
	3.10002	3.10004	3.10005	3.30001
	3.30002	3.30901	4.00001	4.00002
	4.00006	4.00007	4.00009	4.00011
	4.00013	6.00001	6.10003	6.30005
	6.30006	6.31001	6.31008	6.32004
	6.32006	6.40005	6.40007	6.41001
	6.41003	6.41004	6.41009	6.41010
	6.41011	6.41013	6.41014	6.42902
	6.42903	6.42904	6.43004	6.43007
	6.43008	6.50005	6.50007	7.00007
	7.00010	7.00013	7.00019	7.00020
	7.00021	7.00023	7.00901	8.00003
	8.00004	8.00005	8.00006	8.00007
	8.00008	8.00009	8.00013	8.00014
	8.00016	8.00018	8.00022	8.00901
	9.00001	9.00002	9.00003	9.00005
	10.00009	10.00010	10.00024	10.00025

Noatak.....	1.00009	1.00011	3.00030	3.30001
	4.00009	4.00011	6.31001	6.31002
	6.31008	6.32006	6.41004	6.41009
	6.41011	7.00010	7.00016	7.00019
	7.00022	7.00025	8.00001	8.00003
	8.00005	8.00007	8.00013	8.00016
	8.00019	8.00022	8.00901	9.00001
	9.00003	9.00004	10.00009	10.00010
	10.00024	10.00025		

Noorvik.....	1.00009	2.00003	2.00004	2.00005
	3.00034	3.30001	3.30002	4.00009
	6.00001	6.31001	6.31002	6.32004
	6.41008	6.41010	6.41011	6.41013
	6.41014	7.00015	7.00019	7.00021
	8.00005	8.00007	8.00009	8.00012
	8.00013	8.00022	8.00901	9.00001
	9.00005	10.00009	10.00010	10.00024
	10.00025			

Selawik.....	1.00009	2.00003	2.00004	2.00005
	3.30001	3.30002	4.00009	4.00011
	6.30023	6.31001	6.31002	6.32004
	6.32006	6.41008	6.41010	6.41012
	6.41013	6.41014	6.50011	7.00010
	7.00011	7.00012	7.00019	7.00903
	7.00904	8.00005	8.00007	8.00008
	8.00009	8.00013	8.00016	8.00017
	8.00020	8.00022	8.00901	9.00001
	10.00009	10.00010	10.00024	10.00025

Shungnak.....	1.00009	1.00011	2.00003	2.00004
	2.00005	3.00024	3.00034	3.30001
	4.00009	6.00001	6.30023	6.31001
	6.31002	6.32003	6.32006	6.41004
	6.41008	6.41010	6.41011	6.41012
	6.41013	6.41014	7.00015	7.00019
	7.00021	8.00005	8.00007	8.00012
	8.00013	8.00016	8.00022	8.00901
	9.00001	9.00003	10.00002	10.00009
	10.00010	10.00024	10.00025	

OTHER LOCATIONS

Bering Land Bridge National Monument....	6.00007	6.32005	6.32007	8.00021
Bornite.....	3.00024	3.10003		
Buckland River.....	3.00005	3.00014	3.00022	3.00025
	3.00029	4.00009	6.00002	6.10006
	6.10007	6.20001	6.32003	6.41004
	6.41006	6.41010	6.50010	6.50019
	7.00008	10.00005	10.00010	
Candle.....	4.00009	6.32006	6.32008	10.00005
Cape Espenberg	3.00033	6.00007	6.10010	6.10011
	6.50008			
Cape Krusenstern National Monument.....	1.00005	3.00001	3.00028	3.30004
	3.30005	6.00002	6.50006	7.00001
	7.00003	7.00007	7.00009	7.00018
	7.00022	7.00002	8.00001	8.00003
Chukchi Sea.....	1.00011	2.00007	2.00008	3.30002
	3.30004	5.00001	5.00002	5.00003
	5.00004	5.10002	5.10003	5.10004
	5.10005	5.10006	5.10001	5.20001
	5.20002	5.20003	5.20004	5.20002
	5.30001	5.30002	5.30003	6.00002
	6.00006	6.40005	6.40010	6.40011
	6.40012	6.40013	6.40015	6.40016
	6.41005	6.42001	6.42002	6.42003
	6.43001	6.43002	6.43003	6.43004
	6.43005	6.43006	6.43007	6.43008
	6.43901	6.43902	6.43903	6.43904
	6.50002	6.50003	6.50004	6.50001
	8.00003	8.00004	10.00001	
Commercial Fisheries Management Unit 12.	6.40013	6.40014	6.42902	6.42904
Dahl Creek.....	2.00003	3.00024	3.10003	
Eschscholtz Bay.....	3.00028	6.40005	6.40016	6.50010

Game Management Unit 23.....	6.30007	6.30008	6.30009	6.30010
	6.30011	6.30012	6.30022	6.30024
	6.30901	6.30902	6.31001	6.31006
	6.31901	6.31902	6.31903	
Hotham Inlet.....	3.00014	3.00016	3.00022	3.00025
	3.00028	5.10005	6.00002	6.10007
	6.20001	6.40002	6.40005	6.40006
	6.40013	6.41001	6.41007	6.41010
	6.41011	6.41012	6.41013	6.41014
	6.50001	6.50004	6.50019	8.00004
	10.00901	10.00910		
Inland Lake.....	3.00009	3.00029	6.40002	6.40003
	6.40005	6.40006	6.40013	6.41010
	8.00017	10.00901		
Inmachuk River.....	3.00004	3.40007	4.00009	6.20001
	6.40013	6.41006	6.41011	
Kivalina Lagoon.....	3.00011	6.41002	6.41003	10.00001
Kobuk River.....	1.00005	1.00006	3.00005	3.00006
	3.00010	3.00016	3.00018	3.00019
	3.00022	3.00024	3.00025	3.00026
	3.00027	3.00028	3.00029	3.40001
	3.40005	3.40006	3.40008	4.00003
	4.00004	4.00005	4.00008	4.00009
	4.00011	5.10005	6.00001	6.10001
	6.10006	6.10007	6.10008	6.10010
	6.20001	6.30006	6.31001	6.31002
	6.31003	6.32001	6.32002	6.32006
	6.32008	6.40002	6.40005	6.40007
	6.40008	6.40013	6.40014	6.41004
	6.41005	6.41006	6.41007	6.41008
	6.41009	6.41010	6.41011	6.41012
	6.41013	6.41014	6.41017	6.50001
	6.50005	6.50007	6.50013	6.50018
	6.50019	7.00001	7.00002	7.00005
	7.00006	7.00007	7.00008	7.00009
	7.00010	7.00015	7.00021	7.00904
	8.00012	9.00001	9.00003	10.00001
	10.00002	10.00003	10.00006	10.00010
Kobuk Valley National Monument.....	3.00021	6.00001	7.00001	7.00009
	7.00018	7.00904	8.00012	

Kotzebue Sound.....	2.00007	2.00008	3.00002	3.00005
	3.00007	3.00010	3.00016	3.00017
	3.00019	3.00022	3.00025	3.00028
	3.00032	3.30003	3.40005	5.00001
	5.00003	5.10001	5.10003	5.10004
	5.10006	5.10901	5.10902	5.20001
	5.20002	5.20003	5.20004	5.20901
	5.30002	5.30003	6.00006	6.10004
	6.30006	6.31001	6.32001	6.32003
	6.32008	6.40005	6.40008	6.40009
	6.40010	6.40011	6.40012	6.40013
	6.40014	6.41005	6.41007	6.41010
	6.41011	6.41013	6.42001	6.42901
	6.42903	6.42904	6.43001	6.43002
	6.43003	6.43004	6.43005	6.43007
	6.43008	6.43904	6.50001	6.50004
	6.50006	6.50009	6.50010	6.50019
	7.00018	7.00021	8.00004	9.00001
	9.00004	10.00001	10.00010	
Noatak National Monument.....	6.00005	6.41009	7.00024	7.00025
	7.00904	8.00019		
Noatak River.....	1.00005	1.00006	1.00011	3.00013
	3.00018	3.00019	3.00026	3.00027
	3.00028	3.00030	4.00003	4.00009
	4.00011	5.10005	6.00003	6.00005
	6.00008	6.10002	6.10006	6.10007
	6.10008	6.10010	6.20001	6.30005
	6.30006	6.31001	6.31002	6.32003
	6.32006	6.40001	6.40002	6.40004
	6.40005	6.40007	6.40013	6.40014
	6.41004	6.41005	6.41006	6.41007
	6.41009	6.41011	6.42902	6.50005
	6.50007	6.50019	7.00005	7.00006
	7.00014	7.00021	7.00024	7.00025
	8.00001	8.00019	9.00001	10.00001
	10.00004	10.00007	10.00010	
NANA Region.....	1.00001	1.00002	1.00003	1.00004
	1.00005	1.00008	1.00009	1.00010
	1.00011	3.10007	4.00010	4.00011
	4.00901	6.00004	6.00009	6.10009
	6.30009	6.30010	6.30011	6.30012
	6.30022	6.30901	6.30902	6.31004
	6.31006	6.31901	6.31902	6.31903
	6.32007	6.50014	6.50015	6.50016
	6.50901	6.50902	7.00018	7.00026
	8.00007	8.00010	8.00013	8.00014
	8.00015	8.00021	8.00901	8.00902
	8.00902	10.00008	10.00011	10.00013
	10.00014	10.00015	10.00016	10.00017
	10.00018	10.00019	10.00020	10.00021
	10.00022	10.00023	10.00024	10.00025
	10.00026	10.00027	10.00030	

Selawik Lake.....	3.00009	3.00014	3.00022	3.00025
	3.00029	6.00002	6.40001	6.40002
	6.40005	6.40006	6.40013	6.41007
	6.41010	6.41012	6.41013	6.41014
	6.50011	7.00012	8.00017	10.00001
Selawik National Wildlife Refuge.....	6.41010	7.00012	8.00008	8.00020
Selawik River.....	1.00005	1.00006	3.00005	3.00014
	3.00015	3.00025	3.00029	3.00031
	4.00011	6.30006	6.31001	6.32003
	6.40005	6.40013	6.40014	6.41004
	6.41007	6.41008	6.41010	6.41013
	6.41014	6.50010	6.50011	6.50013
	6.50019	7.00005	7.00006	7.00012
	7.00012	8.00008	8.00015	8.00017
	10.00001			
Sheshalik.....	5.10005	6.31002	6.41009	6.41011
	6.50006	7.00007	7.00010	7.00022
	8.00001			
Sport Fisheries Regulatory Area 8.....	6.40013	6.40014		
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BIOLOGY-MARINE.....	1.00002	5.00001	5.00003	6.00002
	6.00006	6.40008	6.40010	6.40011
	6.40012	6.40015	6.42002	6.42003
	6.43002	6.43003	6.43004	6.43005
	6.43005	6.43006	6.43007	6.43008
	7.00013			
BIRDS.....	1.00002	1.00006	1.00011	3.00026
	3.00027	3.00034	5.00001	5.00003
	5.00004	6.00001	6.00005	6.00007
	6.00008	6.00009	6.30004	6.30008
	6.30022	6.30023	6.31002	6.31008
	6.32005	6.50001	6.50002	6.50003
	6.50004	6.50005	6.50006	6.50007
	6.50008	6.50012	6.50014	6.50015
	6.50016	6.50017	6.50018	6.50019
	6.50901	6.50902	7.00020	8.00011
	8.00012	8.00017	8.00019	8.00020
	9.00001	10.00001	10.00019	
BIRDS-WATERFOWL.....	3.00025	3.00026	3.00027	4.00010
	6.00001	6.00005	6.00008	6.00009
	6.30007	6.30022	6.30023	6.30024
	6.32005	6.50003	6.50004	6.50008
	6.50009	6.50010	6.50011	6.50013
	6.50014	6.50015	6.50016	6.50017
	6.50018	6.50019	6.50902	7.00012
	7.00015	7.00020	8.00007	8.00008
	8.00011	8.00012	8.00015	8.00017
	8.00019	8.00020	9.00003	10.00001
	10.00019			
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	4.00010	6.00001	6.00003	6.00004
	6.00005	6.00008	6.00009	6.10010
	6.30003	6.30004	6.30007	6.30009
	6.30010	6.30011	6.30012	6.30022
	6.30023	6.30024	6.30901	6.31001
	6.31002	6.31003	6.31004	6.31005
	6.31006	6.31007	6.31008	6.31901
	6.31902	6.31903	6.32002	6.32003
	7.00015	8.00002	8.00011	8.00012
	8.00016	8.00019	8.00020	9.00001
	9.00002	9.00003	10.00001	10.00020
CHEMISTRY-AQUATIC.....	1.00011	4.00008	4.00009	4.00011
	4.00012	5.00001	5.00003	5.00004
	5.20001	5.20004	5.30001	5.30002
	5.30003	6.00005	6.40001	6.40002
	6.41014	6.42002	10.00001	

CLIMATE.....	1.00002	1.00011	2.00001	2.00002
	2.00003	2.00004	2.00005	2.00006
	2.00007	2.00008	3.00003	3.00007
	3.00010	3.00017	3.00025	3.00026
	3.00027	3.00028	3.00032	3.00034
	3.10001	3.10002	3.10003	3.10005
	3.10006	3.10008	3.30003	4.00010
	5.00004	5.10001	6.00001	6.00005
	6.00007	6.00008	6.10004	6.10007
	6.10012	6.32001	6.32002	6.32008
	6.40008	6.50007	6.50008	6.50009
	6.50018	7.00001	7.00012	7.00013
	7.00013	7.00015	7.00904	8.00001
	8.00002	8.00003	8.00004	8.00007
	8.00007	8.00011	8.00012	8.00014
	8.00017	8.00019	8.00020	8.00021
	10.00001			
COAL.....	3.00005	3.00025	3.00027	3.00034
	3.40001	3.40002	3.40008	4.00010
	8.00014	8.00021		
COPPER.....	3.00024	3.00026	3.00027	3.00034
	3.40001	3.40002	5.30003	8.00013
	10.00003	10.00013		
CRAB.....	5.30001	6.00002	6.40012	6.40013
	6.40014	6.41001		
CURRENTS.....	1.00002	2.00007	2.00008	3.00002
	3.30002	3.30004	5.00001	5.00003
	5.10005	5.20001	5.20002	5.20003
	5.20004	6.40015	6.50008	7.00009
	8.00004	10.00001		
DATA INVENTORY.....	1.00002	1.00008	1.00012	1.00013
	2.00001	2.00002	2.00003	2.00004
	2.00005	5.00001	5.00003	5.10006
	6.40013	6.50017	8.00010	10.00001
	10.00010			
ECONOMICS.....	1.00002	1.00003	3.00004	3.40012
	6.31002	6.31008	6.32004	6.32006
	6.32007	6.32009	6.32904	6.40005
	6.40005	7.00013	7.00015	7.00021
	8.00001	8.00004	8.00005	8.00006
	8.00007	8.00010	8.00011	8.00012
	8.00013	8.00014	8.00016	8.00017
	8.00019	8.00020	8.00022	9.00005
EDUCATION.....	1.00009	7.00019		

EMPLOYMENT.....	1.00003	1.00009	6.31008	7.00019
	8.00006	8.00007	8.00013	8.00014
	8.00016	8.00017		
ENERGY.....	1.00003	1.00004	3.30001	4.00010
	8.00007	8.00010	8.00013	8.00014
	10.00015			
EROSION.....	1.00011	3.00018	3.30002	3.30004
	3.30005	3.30901	4.00010	5.00004
	5.00004	5.10005	6.10011	8.00006
	8.00007	8.00022	10.00001	
FIRE.....	1.00002	6.00001	6.31902	6.32005
	6.32007	6.50009	8.00011	8.00012
	8.00019	8.00020		
FISH.....	1.00003	3.00025	3.00026	3.00027
	3.00034	4.00010	5.00001	5.30001
	6.00001	6.00002	6.00007	6.00009
	6.31008	6.40005	6.40007	6.40008
	6.40009	6.40010	6.40011	6.40012
	6.40013	6.40014	6.40016	6.41001
	6.41002	6.41003	6.41006	6.41008
	6.41009	6.41010	6.41011	6.41014
	6.42002	6.43003	6.43004	6.43007
	6.43008	7.00012	8.00002	8.00007
	8.00010	8.00011	8.00012	8.00016
	8.00017	8.00019	8.00020	8.00021
	10.00022			
FISH-ANADROMOUS.....	1.00006	1.00011	3.00026	3.00027
	6.00001	6.00003	6.40005	6.40008
	6.40013	6.40014	6.41001	6.41003
	6.41004	6.41006	6.41009	6.41010
	6.41011	6.42903	6.42904	7.00015
	8.00015	10.00001	10.00022	
FISH-FRESHWATER.....	1.00006	3.00027	6.00001	6.00003
	6.00005	6.40008	6.40013	6.40014
	6.41008	6.41012	6.41014	6.41015
	6.41016	6.41017	7.00015	10.00001
	10.00022			
FISH-MARINE.....	1.00011	5.00003	5.00004	5.30001
	6.00002	6.00003	6.40008	6.40009
	6.40010	6.40011	6.40012	6.40013
	6.40014	6.41001	6.41009	6.41010
	6.42003	6.43003	6.43004	6.43007
	6.43008	10.00001		

FISHERIES-COMMERCIAL.....	1.00003	1.00010	6.00001	6.00004
	6.40005	6.40007	6.40009	6.40013
	6.40014	6.41001	6.41004	6.41007
	6.41009	6.41010	6.41011	6.41013
	6.41014	6.42003	6.42901	6.42902
	6.42903	6.42904	7.00013	8.00011
	8.00012	8.00013	8.00014	8.00019
	8.00020			
FISHERIES-SPORT.....	6.40013	6.40014	6.41003	6.41009
	6.41010	6.41013	6.41014	8.00002
	8.00011	8.00012	8.00017	8.00019
	8.00020			
FISHERIES-SUBSISTENCE.....	1.00001	1.00003	1.00010	3.00027
	6.00001	6.00003	6.00004	6.31002
	6.40005	6.40007	6.40009	6.40013
	6.40014	6.41001	6.41002	6.41003
	6.41004	6.41008	6.41009	6.41010
	6.41011	6.41013	6.41014	7.00007
	7.00011	7.00012	7.00013	7.00015
	7.00020	7.00021	8.00011	8.00012
	8.00013	8.00016	8.00017	8.00019
	8.00020	9.00001	10.00020	
FLOOD PLAINS.....	3.30001	3.30003	6.00001	6.50008
	8.00007	10.00009		
FLOODING.....	2.00007	3.00013	3.00026	3.30001
	3.30002	3.30003	4.00010	8.00006
	8.00021	8.00022	10.00009	
FOG.....	2.00001	2.00002	2.00003	2.00008
FORAGE.....	3.10004	6.10010	6.10013	6.31001
	6.31004	6.32001	6.32003	6.32005
	6.32007			
FOREST.....	1.00003	3.00028	4.00010	6.00005
	6.10007	6.10008	6.10010	6.10012
	6.32003	7.00015	8.00002	8.00014
	8.00017	10.00008	10.00026	
FOX.....	3.00025	3.00026	3.00027	6.00001
	6.00005	6.00008	6.30002	6.30003
	6.30007	6.30008	6.30023	6.43004
	6.43007	6.43008	6.50008	
FUR BEARERS.....	1.00002	1.00003	6.00004	6.00008
	6.00009	6.30007	6.30008	6.30009
	6.30010	6.30011	6.30012	6.30022
	7.00012	7.00015	8.00016	

GEOCHEMISTRY.....	3.00004	3.00009	3.00015	3.00024
	3.00024	3.00028	3.00029	3.40004
	3.40007			
GEOLOGIC MAPPING.....	1.00006	3.00004	3.00024	3.00025
	3.00026	3.00027	3.00028	3.00029
	3.00030	3.00034	3.10001	3.40010
	5.10003	10.00002	10.00003	10.00004
	10.00005	10.00006	10.00007	10.00028
	10.00029	10.00033		
GEOLOGY.....	1.00002	1.00004	1.00006	1.00011
	3.00001	3.00002	3.00003	3.00004
	3.00005	3.00006	3.00007	3.00008
	3.00009	3.00010	3.00011	3.00012
	3.00013	3.00014	3.00015	3.00018
	3.00019	3.00020	3.00021	3.00022
	3.00023	3.00024	3.00025	3.00026
	3.00027	3.00028	3.00029	3.00030
	3.00032	3.00033	3.00034	3.00091
	3.00902	3.10001	3.10008	3.30005
	3.40001	3.40002	3.40003	3.40004
	3.40007	3.40008	3.40011	4.00002
	4.00006	5.10001	5.10002	5.10003
	5.10004	5.10005	6.00001	6.00007
	6.00008	6.10001	6.10004	6.10007
	6.10012	6.30002	6.31008	7.00012
	8.00001	8.00010	8.00011	8.00012
	8.00017	8.00019	8.00020	8.00021
	10.00001	10.00002	10.00003	10.00005
	10.00006	10.00007	10.00013	10.00018
	10.00028	10.00029	10.00033	
GEOLOGY-HISTORICAL.....	3.00003	3.00005	3.00006	3.00007
	3.00008	3.00009	3.00010	3.00011
	3.00012	3.00014	3.00016	3.00017
	3.00018	3.00019	3.00022	3.00024
	3.00025	3.00026	3.00027	3.00028
	3.00029	3.00030	3.00032	3.00033
	3.00901	3.30004	5.10002	5.10005
	6.10004	7.00001	7.00002	10.00002
GEOLOGY-MARINE.....	1.00011	3.00007	3.00019	3.00028
	3.30004	3.30901	5.00001	5.00003
	5.00004	5.10002	5.10003	10.00001
GEOMORPHOLOGY.....	3.00003	3.00005	3.00006	3.00017
	3.00024	3.00027	3.00028	3.00029
	3.00032	3.10001	3.30004	5.10005
	10.00002	10.00003	10.00005	10.00006
	10.00007			
GEOPHYSICS.....	3.00030	3.00032	5.10003	

GLACIATION.....	1.00006	3.00006	3.00007	3.00010
	3.00014	3.00016	3.00017	3.00018
	3.00019	3.00022	3.00024	3.00025
	3.00028	3.00032	3.10001	6.50018
GOLD.....	3.00024	3.00025	3.00026	3.00027
	3.00034	3.40001	3.40002	10.00003
	10.00004	10.00005	10.00013	10.00029
GOVERNMENT.....	1.00002	1.00013	7.00013	8.00007
	8.00013			
GRAVEL.....	3.00026	3.00028	3.10003	3.10005
	3.10006	6.50008	8.00007	
HABITAT.....	1.00006	3.00027	4.00010	5.00004
	6.00001	6.00002	6.10010	6.30002
	6.30008	6.30022	6.30024	6.31902
	6.32002	6.32003	6.32005	6.32008
	6.40010	6.40013	6.40014	6.41014
	6.43001	6.43003	6.43004	6.43007
	6.43008	6.43901	6.50003	6.50007
	6.50008	6.50009	6.50011	6.50013
	7.00012	8.00011	8.00012	8.00015
	8.00019	8.00020	10.00019	
HARBORS.....	8.00004	8.00006	8.00902	10.00010
HARVEST STATISTICS.....	1.00004	6.00001	6.00004	6.30007
	6.30009	6.30010	6.30011	6.30012
	6.30021	6.30023	6.31001	6.40013
	6.40014	6.41002	6.41006	6.41008
	6.41009	6.41010	6.41011	6.41013
	6.41014	6.50010	6.50014	6.50015
	6.50016	8.00016		
HEALTH-HUMAN.....	1.00003	6.10009	7.00901	8.00014
	9.00001	9.00002	9.00003	9.00004
	9.00005			
HOT SPRINGS.....	3.00015	3.00025	3.00031	8.00017
HOUSING.....	1.00003	1.00011	3.30001	7.00008
	7.00012	7.00013	7.00016	7.00020
	7.00021	7.00023	8.00003	8.00006
	8.00007	8.00013	8.00014	8.00018
HUNTING-SPORT.....	6.00004	6.30007	6.30009	6.30010
	6.30011	6.30012	6.30023	6.31001
	8.00002	8.00011	8.00012	8.00019
	8.00020			

HUNTING-SUBSISTENCE.....	1.00001	1.00006	3.00027	6.00004
	6.30007	6.30009	6.30010	6.30011
	6.30012	6.30023	6.31001	6.31002
	6.40005	6.50005	6.50008	6.50010
	7.00007	7.00011	7.00012	7.00015
	7.00020	7.00021	8.00011	8.00012
	8.00016	8.00019	8.00020	9.00001
	9.00005	10.00020		
HYDROELECTRIC.....	4.00010	10.00015		
HYDROLOGY.....	1.00002	1.00004	1.00011	3.00003
	3.00015	3.10008	4.00001	4.00002
	4.00003	4.00004	4.00005	4.00006
	4.00008	4.00009	4.00011	4.00013
	6.00005	6.10011	6.50009	6.50011
	8.00008	8.00011	8.00012	8.00017
	8.00019	8.00020	8.00021	10.00001
	10.00014			
ICE.....	1.00002	2.00004	2.00007	3.00002
	3.00003	3.00010	3.00013	3.10008
	3.30003	4.00004	4.00005	5.10002
	6.00001	6.43003	6.50002	6.50009
	6.50010	10.00001		
INSECTS.....	1.00011	6.00002	6.00005	6.30005
	6.30903	6.31004		
INVERTEBRATES.....	1.00011	3.00011	3.00028	5.00001
	5.00003	5.30001	6.00002	6.00005
	6.00006	6.00007	6.30005	6.30903
	6.40001	6.40002	6.40003	6.40004
	6.40005	6.40006	6.40007	6.40010
	6.40011	6.40012	6.41001	6.43003
	6.50008	10.00001		
LAND USE PLANNING.....	1.00005	1.00007	3.10003	3.10005
	3.10006	3.40011	4.00010	8.00001
	8.00002	8.00003	8.00006	8.00007
	8.00010	8.00011	8.00012	8.00014
	8.00015	8.00018	8.00019	8.00020
	10.00009	10.00024	10.00030	
LIMNOLOGY.....	1.00002	1.00011	4.00008	6.00005
	6.00007	6.40001	6.40004	6.40006
	6.41012	6.41014		
LITTORAL ZONE.....	3.30002	5.00001	5.00003	5.10005
	6.00002	6.40012	6.50006	10.00001