

UNITED STATES DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
IN COOPERATION WITH THE NATIONAL PARK SERVICE

**BIBLIOGRAPHY OF RESEARCH AND EXPLORATION
IN THE GLACIER BAY REGION, SOUTHEASTERN ALASKA, 1798-1992**

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AN INTRODUCTION AND ACKNOWLEDGEMENTS SECTION

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Bibliography of Research and Exploration In the Glacier Bay Region, southeastern Alaska, 1798-1992

Doris L. Howe (Compiler)

INTRODUCTION AND ACKNOWLEDGEMENTS

By David A. Brew

The entries in this bibliography span almost two centuries of the human history, scientific research, and exploration activities in the Glacier Bay region of southeastern Alaska (Fig. 1). The reports, articles, and maps listed cover a wide variety of topics, but they are all unified by one common concern. That concern is the quest for knowledge about all aspects of the region. Almost without exception, the scientists and others who have produced this material consider themselves privileged to have been part of that quest; it is their hope that this bibliography will aid in continuing and expanding comprehensive scientific studies in the region.

This bibliography is a successor to that compiled by Howe (1984). It both updates the entries for the period covered in that earlier report and incorporates a large number of entries that have been published since then. The main subject areas are geology, glaciology, climatology, terrestrial ecosystems, marine and aquatic ecosystems, history and anthropology, and park-resource management. The entries have been compiled from lists provided by authors and from the library holdings of the U.S. National Park Service at the headquarters of Glacier Bay National Park and Preserve at Bartlett Cove.

In contrast to the previous version (Howe, 1984), which treated the various scientific disciplines separately, this bibliography lists all entries in alphabetical order. The bibliography has two sections: the first covers published and unpublished materials of all kinds; the second has been prepared by Greg Streveler and is an annotated list of unpublished research reports in official files at Glacier Bay National Park and Preserve headquarters at Bartlett Cove and in his personal library. Note that in both sections the reports are listed chronologically according to the senior author's name. This type of listing is somewhat unusual, but it is designed and intended to emphasize the historical aspect of each researcher's efforts.

This bibliography includes the paper by Brown (1984) from the Proceedings of the First Glacier Bay Science Symposium (Wood and others, 1984), but does not include any of the extended abstracts contained in those Proceedings. Nor are very many other abstracts included. The bibliography does, however, include all of the papers contained in the Proceedings of the Second Glacier Bay Science Symposium (Milner and Wood, 1990).

The history of the library and report files at Bartlett Cove is in itself interesting. Most Park headquarters are, in general, not science establishments, although communicating scientific information is one of their important functions. The Bartlett Cove headquarters of Glacier Bay National Park and Preserve is no exception, but because science has always been important at Glacier Bay, the library and files there evolved appropriately. Even before the 1960's some unknown person had begun to catalog the few books then in the Superintendent's office and had marked some books according to the Dewey decimal system. During Bob Howe's tenure as Superintendent Bruce Paige was hired to head up interpretation functions and those few books were moved into Bruce's office to be available to seasonal naturalists.

Doris Howe began her efforts to organize the library then and began to obtain copies of reports from researchers. She reports that her first card catalog was an old shoe box. As research papers came in, she put them in pamphlet binders, assigned Dewey numbers, and cataloged them. Starting about 1980, Doris began to realize the long-term value of that little library as a depository of Glacier Bay scientific material and increased her efforts to acquire pertinent reports. It has since expanded greatly, to the point where it is now an essential part of scientific research at Glacier Bay and would be a strong component in any future dedicated science building at Bartlett Cove. The reports in the library are both the stimulus and the basis for the Howe (1984) bibliography and for this bibliography.

INTRODUCTION AND ACKNOWLEDGEMENTS--CONTINUED

As indicated above, both this bibliography and that of Howe (1984) are based primarily on information received from active researchers in the Glacier Bay region. The computer-word-processing file from which this report was prepared has been turned over to the staff of Glacier Bay National Park and Preserve and will be the starting point for future updated bibliographies prepared and released by the National Park Service. All users of this bibliography are urged to continuously inform the Glacier Bay National Park and Preserve staff of both their own pertinent research publications and other publications they find useful in their Glacier Bay-oriented studies. At least the titles of all such items should be sent to the following address, and copies of any items will be greatly appreciated:

GLACIER BAY NATIONAL PARK AND PRESERVE
(ATTN: BIBLIOGRAPHY AND LIBRARY)
P.O. BOX 140
GUSTAVUS, AK 99826-0140

This bibliography has not been edited by a professional editor and we are acutely aware that we have neither caught all the substantive errors nor have we achieved a perfectly consistent style for the entries. The next version will be improved if those of you who find errors in this version send the corrections to the address above. The next compiler will surely appreciate your help.

Those of us involved in this compilation extend our thanks to the Park Superintendents who provided encouragement for this continuing effort: Leon Mitchell, Robert E. Howe, Thomas Ritter, John Chapman, Michael Tollefson, and Marvin Jensen; and to Gary Vequist and Mark Schroeder for their appreciation of the value of a scientific bibliography. It was Dr. Don Lawrence who first suggested that a bibliography be compiled for the First Glacier Bay Science Symposium in 1983, and who personally contracted with Greg Streveler to search the headquarters office files for reports that had not been placed in the library. We are grateful to Bruce Paige and the Park Interpretative Division and to Sharon Paige and the Alaska Natural History Association for continued support of the Library at the Park headquarters. The research parties who have worked up the Bay over the years extend their thanks to Ken Youmans, Chuck Janda, Jim Sanders, and Jim Luthy for their efforts and support in making the work possible and to members of the Protection and Maintenance Divisions who have been similarly supportive in recent years. We extend our appreciation to Professor Don Lawrence for his untiring scientific support and to Greg Streveler for his boundless enthusiasm and energy on behalf of Glacier Bay science and its scientists, and on behalf of the Glacier Bay ecosystem itself. Both Mark Noble and Don Lawrence provided helpful last-minute critical reviews. Lastly, many thanks to Judy Weathers, Sonia Macasaet, and especially to Rosalyn Higgins of the USGS for an admirable job of converting a card file to a computer file.

The Glacier Bay region is truly an unusual place on earth; it provides unique insights into natural processes in a setting that nurtures the mind and soul of scientist and casual visitor alike. May those who use this bibliography continue both the established high standards of research and the Glacier Bay tradition of sensitive investigations that preserve the outstanding features of the land and its natural biota.

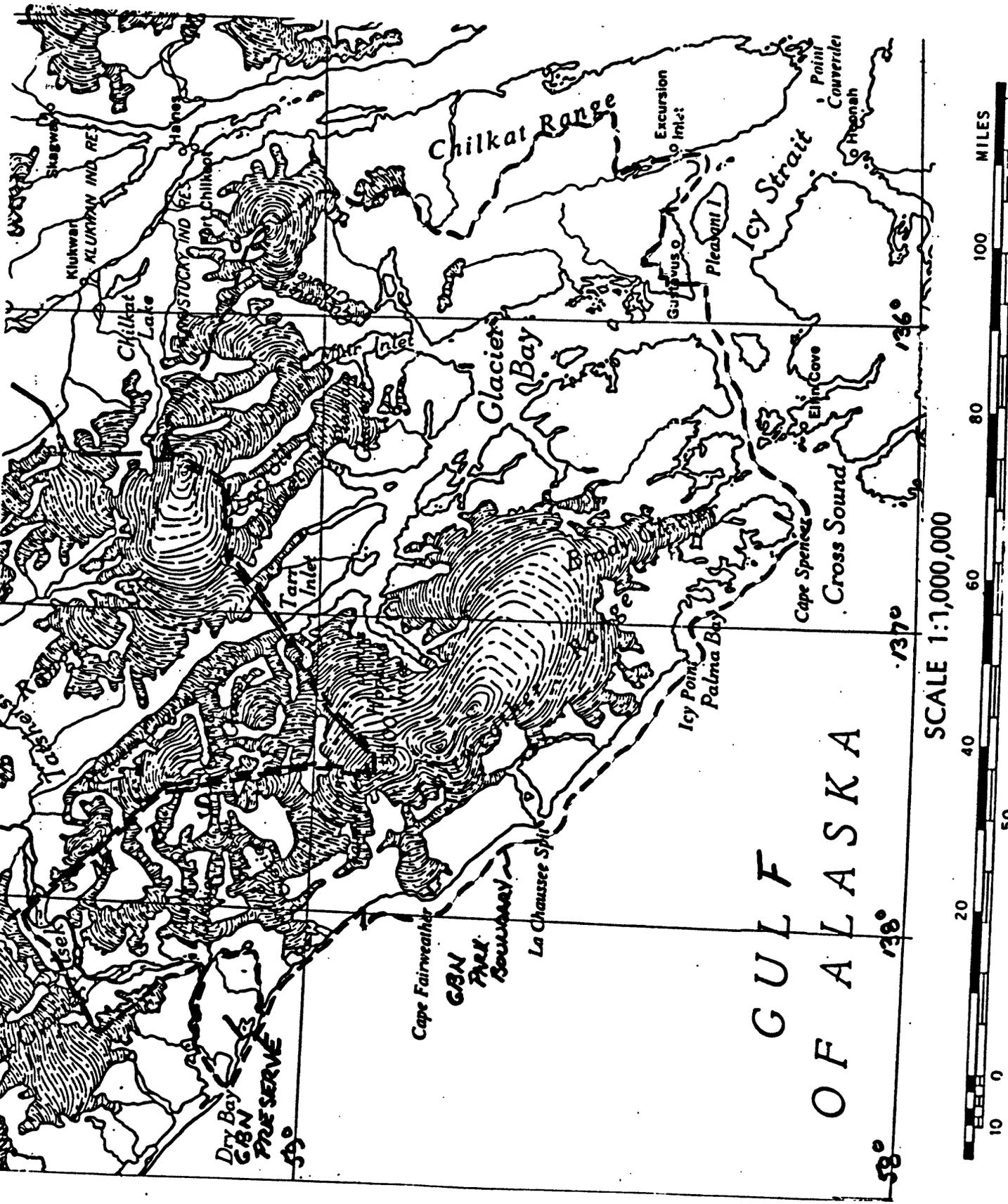


Figure 1.—Map showing Glacier Bay National Park and Preserve and selected place names. Base is from U.S. Geological Survey National Atlas Southeastern Alaska sheet. Park and Preserve boundaries are from U.S. Geological Survey Map 58135-D7-TF-250 (Glacier Bay National Park and Preserve, Alaska, 1:250,000-scale topographic map), 1990.

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Description of Bartlett River watershed, emphasizing salmon escapement to lakes, but including data on geomorphology, biota, and glacial history.

Brew, D.A. 1991. U.S. Geological Survey bedrock geological studies in Glacier Bay National Park, Southeastern Alaska. Unpublished. 3p. (GBNP Resource Management files, folder 2219o.)

Layperson-oriented summary of research to date and its major findings; important and useful.

Brown, P. 1985. Mountain goat observations in Glacier Bay National Park, summer. Unpublished. 14p. (GBNP Resource Management files: "Mountain goat surveys" box.)

Gives full account of Ranger, Resource Management and J. Bennett's counts for that year, with a brief review of the literature on goat habitat and food preferences.

Brown, P. 1986. Backcountry campsite monitoring program: campsite surveys 1986. Unpublished. 29p. (GBNP Ranger files: "Campsite surveys" folder.)

Much information on the degree of human disturbance to aesthetics and gross vegetation of many Glacier Bay campsites.

Brown, P. 1987. Baseline studies, Hugh Miller and Adams areas. Unpublished. 69p. (GBNP Resource Management files: "Moulting Birds" box.)

Rough draft of important survey of selected terrestrial and marine species of these two inlets, with notes on human use.

Cain, S. 1982. Eagle Population and Nest survey of Glacier Bay—trip report. Unpublished U.S. Fish & Wildlife Service report. 19p. (GBNP Resource Management files: "Eagles" box.)

Most thorough and professional survey of Glacier Bay eagles.

Chapin, T., C. Fastie, and L. Walker. 1989. Experimental studies of plant succession at Glacier Bay. Unpublished. 3p. (GBNP Resource Management files: "Researcher: Chapin/Fastie" folder)

Layperson-oriented summary of the author's research on alder and spruce.

Chapman, J. 1983. Bay Patrol, February 10-12. Unpublished. 2p. (GBNP Resource Management files: "Mountain goat surveys" box.)

Reports on careful count of lowlands of E. Tarr - Tidal? (Map lost); also Mt. Wright - Sandy Cove.

Conant, B. and J. King. 1981. Winter waterfowl survey, Southeastern Alaska. Unpublished. U.S. Fish & Wildlife Service report. 5p. (GBNP Resource Management file: "Bird research" box.)

Results of an aircraft survey of randomly selected plots on northern SE Alaskan waters, with discussion of method and implications of data.

Conant, B., J. King, J. Trapp, and J. Hodges. Undated. Estimating populations of wintering waterfowl in Southeast Alaska. Unpublished. U.S. Fish & Wildlife Service manuscript. 14p. (GBNP Resource Management files: "Bird research" box.)

Discussion of 1981 aerial survey results in light of ground truthing, with considerations of data implications.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

Cowan, E. 1989. Suspended sediment concentrations and water column structure in Muir Inlet and Tarr Inlet, June 1989. Unpublished. 2p. (GBNP Resource Management files: "Researcher: Cowan" folder.)

Layperson-oriented synopsis of 1989 work, which follows up on her dissertation studies of sedimentation in McBride Inlet.

Cowan, E. 1990. Geologic processes in glacial fjords of Alaska. Appalachian State University Research News. 8(1). 3p. (GBNP Resource Management files: "Researcher: Cowan" folder)

Excellent summary of Ellen's work to date on periglacial marine sedimentation at Glacier Bay.

Davis, S. (ed.). 1988. The Hidden Falls site, Baranof Island, Alaska. Alaska Anthropological Association Monograph Series - "V". 383p. (Streveler personal library. Uneven quality.)

Most recent and exhaustive treatment of the oldest known habitation site in SE. Alaska, with paleoenvironmental reconstructions and comparisons to other early sites, including Groundhog Bay.

Dinneford, B. 1984. Mountain goat composition counts, 7-24 and 8-6, Lower Alsek area. Unpublished Alaska Department of Fish & Game data. 5p. (GBNP Resource Management files: "Mountain goat surveys" box.)

Professional-done surveys by Alaska Department of Fish & Game area biologist.

Dixon, J. 1938. Special report on the non-game birds observed or collected at Glacier Bay, Alaska, 1907 Alexander Expedition. Unpublished report to NPS. 5p. (Streveler personal library.)

Synopsis of the somewhat sketchy records from the subject expedition.

Ellis, R. 1976. List of insects and spiders crawling on snow, Berg Creek, Adams Inlet, 1/28/76. Unpublished letter to NPS. 2p. (GBNP Resource Management files, folder 2219c.)

Only i.d.'s extant on winter-active insects of the Park.

Engstrom, D. and H. Wright. 1986. Early lake ontogeny following neoglacial recession at Glacier Bay, Alaska. Proposal to the National Science Foundation. 61p. (GBNP Resource Management files: "Research: Engstrom" folder.)

Excellent introductory section giving background on Glacier Bay chronosequence from hydrologist's perspective.

Estabrook, C. 1970. Bird observations, Glacier Bay. Unpublished manuscript. 40p. approx. (GBNP Ranger files: 1970 field notes.)

Species-by-species listing of birds seen on patrol in Glacier Bay - Icy Strait area.

Estabrook, C. and B. Paige. 1974. Plant successional trends associated with isostasy in the Beardslee Islands, 1970-1974. Unpublished manuscript. ?p. (Loaned to Cornell University; may be lost.)

Plant transects from five islands of differing supratidal ages provide beginning data and conclusions for follow-up successional studies.

Farris, A. 1990. Survey of the 1990 Breeding bald eagle population in the Beardslee Islands in Glacier Bay, Alaska. Unpublished. 9p. (GBNP Resource Management files: "Inventory & Monitoring" box.)

Despite title, is survey of eagle NESTS, with judgement as to their activity; excellent comparisons with Lentfer and Maier, 1989.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

Fastie, C. 1989. Patterns of biomass and nutrient accumulation during forest succession at Glacier Bay National Park, Alaska. Unpublished proposal to University of Alaska Office of Graduate Studies. 11p. (GBNP Resource Management file: "Researcher: Chapin/Fastie" folder.)

Contains excellent summary of author's work to date on spruce/alder interactions and autecology in the Glacier Bay chronosequence.

Fastie, C. 1991. Causes and ecosystem effects of multiple successional pathways at Glacier Bay National Park. Unpublished. 2p. (GBNP Resource Management files: "Researcher: Chapin/Fastie" folder.)

Fine synopsis of research on role of seed dispersal and early colonization by alder in altering successional pathways.

Field, W.O. 1976-77. Notes on photographic coverage of the principal situations in the various inlets of Glacier Bay. Unpublished letters to the National Science Foundation. 35p. (GBNP Resource Management files: folder 3031.)

Highly important glacier-by-glacier coverage of photographic needs, location of key actions, with considerable discussion of the past behavior of most of the glaciers.

Field, W.O. 1985-89. Compendium of miscellaneous notes and instructions to National Park Service on photo station occupation. Unpublished. Voluminous. (GBNP Naturalist files: "Bill Field photostations" box.)

Many useful comments on glacier behavior along with instructions of various sorts on what pictures to take from where.

Field, W.O. 1987. Glacier fluctuations from 1880 to the 1980s in Glacier Bay National Park, Alaska. Unpublished. 33p. (GBNP Resource Management files: "Researcher: Field" folder.)

Absolutely crucial reference for monitoring glacier recession in the Muir Inlet vicinity.

Field, W.O. 1988. Historical and currently usable stations for photographing glacier termini in Glacier Bay National Park and Preserve, Alaska: Part II - the glaciers of Rendu, Tarr and Johns Hopkins Inlets and other parts of upper Glacier Bay. Unpublished. 80p. (GBNP Naturalist files: "Bill Field photostations" box.)

Crucial reference: part I not found.

Field, W.O. 1988. National Park Service, Glacier Bay National Park and Preserve, Alaska: glacier photo coverage, 1940-1987. Unpublished. 10p. (GBNP Naturalist files: "Bill Field photostations" box.)

Annotated list of photos taken by Park personnel, with narrative of activities.

Field, W.O. 1989. A proposed 1989 program of glacial photography in Glacier Bay National Park and Preserve. Unpublished. 34p. (Streveler personal library.)

Glacier-by-glacier account of observation stations and photographic needs, with maps of recent recessional histories.

Fister, K. and L. Widdice. 1989. Scoter census in the Hugh Miller area. Unpublished. 5p. (GBNP Resource Management files: "Moulting birds" box.)

Yearly increment of data for Hugh Miller scoter study area, along with notes on mergansers, geese, harlequins, and beach use by mammals.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

Fox, J. 1977. Mountain goat study and survey in Torch Bay—Dixon Harbor region, Glacier Bay National Monument June 25 - July 9. Unpublished. 11p. (GBNP Resource Management files: "Mountain goat surveys" box.)

Carefully done mapping of goat occurrences, along with those of marmot, wolf, and black bear for Torch Bay—De Langle Mountain—Brady Glacier area.

Fox, J., C. Smith, and J. Schoen. 1989. Relation between mountain goats and their habitat in southeastern Alaska. U.S. Forest Service PNW-9TR-246. 26p. (GBNP Resource Management files: "Mountain goat research" box.)

Important summary of present knowledge; includes data from the Park.

Goodwin, R. 1986. Reconstruction of the patterns of erosion and deposition near the margin of a large Alaskan coastal glacier. Unpublished research proposal to the National Science Foundation. 32p. (GBNP Resource Management files, folder 2219.)

Work was not funded, but proposal provides a very useful hypothesis for the mode of formation and subsequent deformation of sediments along Glacier Bay's SE margin.

Harrington, B. 1975. Eagle count. Unpublished. 2p. (GBNP Resource Management files: "Eagle" box.)

Survey of nests along Glacier Bay in conjunction with Ranger duties; sketchy.

Harris, D. 1969. Observations of glacier variations, Glacier Bay, Alaska, 1969. Unpublished Colorado State University report. (GBNP Naturalist files: "Bill Field photostations" box.)

Elegant account, with photos, of Harris' occupation of Field's stations.

Heacox, K. 1983. Muir Inlet vegetation transects and moose browse study. Unpublished. 4p. (GBNP Resource Management files: "Moose (general)" box.)

Two-day study of two transects in the Klotz Hills—Forest Creek area; recorded gross composition of vegetation and measured the frequency of moose browsing on willows.

Heacox, K. 1983. The Margerie Glacier black-legged kittiwake colony, Glacier Bay National Park, Alaska. Unpublished. 9 p. (GBNP Resource Management file: "Seabird surveys" box.)

Excellent report on careful survey of colony.

Heacox, K. and L. Selig. 1984. Natural history field notes. Unpublished. 20p. approx. (GBNP Ranger files, 1984 field notes.)

Abstract of field notes from summer in Glacier Bay; backup of very good field notes by two excellent observers.

Hennan, P. 1985. Causes of basal scars on Alaska cedar. Unpublished U.S. Forest Service draft. 11p. (GBNP Resource Management files: "Bears: biology" box.)

Reports on study on Chicagof and Baranof Islands; concludes that brown bears are responsible for scarring; scars not a primary cause of mortality.

Hodges, J. and B. Conant. 1980. Wintering bald eagles in the northcentral portion of southeast Alaska. Unpublished U.S. Fish & Wildlife Service report. 5p. (GBNP Resource Management file: "Eagles" box.)

Important survey that includes Icy Strait.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

Hodges, J. 1982. Nest records for peregrine falcons in the Park. Unpublished. 4p. (GBNP Resource Management files, folder 1419.)

Letter plus three forms w/photos of suspected peregrine nesting cliffs at Boussole Head, Boussole Bay W., and Sugarloaf Island.

Hodges, J. and F. Robards. 1982. Observations of 3,850 bald eagle nests in southeast Alaska. *in* Proceedings of a symposium and workshop, raptor management and biology, February 17-20, 1981, Anchorage, AK. Ladd, W., et. al., eds., U.S. Fish & Wildlife Service, Anchorage, AK. (Published). (GBNP Resource Management files: "Eagles" box.)

Very important paper showing distributions and long-term productivity trends.

Jettmar, K. 1984. The Lituya Bay black-legged kittiwake colony, Glacier Bay National Park and Preserve: a census. 28p. (GBNP Ranger files, 1984 field notes.)

Thorough treatment of an important series of observations, documenting a nesting failure that has become important in light of the 1989 failure; good treatment of pre-1984 information.

Johnson, S. 1988. Surveys of selected Park beaches for debris. Unpublished. 20p. (GBNP Resource Management files: "Beach debris" box.)

Unpublished data by NOAA employee who is pursuing debris study around Gulf of Alaska; includes Dixon Harbor, Astrolabe Bay, and Echo Creek.

Jones-Toscano, E. 1983. Backcountry impact in Glacier Bay: summers of 1982 and 1983. Unpublished. 52p. (GBNP Ranger files, 1983 field notes.)

Very useful account, with illustrations, of instances of human impact, mainly on vegetation of Glacier Bay's shores.

Jones-Toscano, E. and K. Heacox. 1983. Natural history field notes. Unpublished. 30p. approx. (GBNP Ranger files, 1983 field notes.)

Abstract of field notes from summer duty in Glacier Bay.

Jones-Toscano, E., K. Heacox, and P. Brown. 1983. Eagle nest survey, Glacier Bay National Park. Unpublished. 1p. (GBNP Resource Management files: "Eagles" box. Raw data in "1983-83 Resource Management Guidelines" binder in Ranger files.)

Surveyed 39 nest, most of which were checked in 1982 by U.S. Fish & Wildlife Service, making judgement on activity.

Jones-Toscano, E. and K. Jettmar. 1984. Natural history field notes. Unpublished 20p. approx. (GBNP Ranger files, 1984 field notes.)

Abstract of field notes from summer on outer coast; also, notes themselves contain much of use by two good observers.

Jones-Toscano, E. and P. Pellegrin. 1985. Natural history field notes. Unpublished 20p. approx. (GBNP Ranger files, 1985 field notes.)

Abstract of good field notes from outer coast made in course of summer ranger patrols.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

Juday, G. 1989. Ten years of successional change on the Hugh Miller plots at Glacier Bay National park. Abstract of paper delivered at 1989 Arctic Science Conference, Fairbanks, AK. 1 p. (plus 40p. data). (GBNP Resource Management files: "Researcher: Juday" folder.)

Synopsis of work on a study plot that provides a context for the Cooper/Lawrence plots.

Juday, G. n.d. The Hugh Miller (SE 43) ecological reserve. Unpublished. 4p. (GBNP Resource Management file: "Vegetation Management" box.)

Good description of site and its vegetation going back to Cooper. Apparently part of a more comprehensive U.S. Forest Service report.

Klinger, N. 1987. Sea otter outer coast observations, summer 1987. 10p. (GBNP Ranger files, 1987 field notes.)

Follow-up to Perrelli count of 1985, lower outer coast.

Kondzela, C. and A. Gharret. 1990. Layman's abstract of Glacier Bay project. Unpublished. 1p. (GBNP Resource Management file: "Researcher: Kondzela" folder.)

Outline of studies on genetic diversity among pink salmon as a function of population establishment date.

Langdon, S. 1983. From communal property to limited entry: historical ironies in the management of southeast Alaskan salmon. Unpublished. 50p. (GBNP Resource Management files: "Fishing history" box.)

Useful summary of Tlingit/Haida relationships to the salmon fishery since pre-European times.

Lee, D. 1985. Distribution of bear sightings in the Muir Point, Garforth Island and Sandy Cove areas. Unpublished. 26p. (GBNP Resource Management files: "Bears" box.)

Compendium of bear sightings, analyzed for activity peaks.

Lee, D. 1985. Beach habitat utilization by black bears in South Sandy Cove, Glacier Bay, Alaska. Unpublished. 14p. (GBNP Resource Management files: "Bears: management research" box.)

128 hours of observations, summer; resulted in preliminary understanding of activity patterns.

Lentfer, H. and A. Maier. 1989. Distribution and biology of nesting black oystercatchers in the Beardslee Islands in Glacier Bay, Alaska. unpublished. 15 p. GBNP Resource Management file: "Researcher: Lentfer" folder.)

The most useful work in existence on the species in the Park.

Lentfer, H. and A. Maier. 1989. Survey of the 1989 breeding bald eagle population in the Beardslee Islands in Glacier Bay, Alaska. Unpublished. 12p. (GBNP Resource Management file: "Researcher: Lentfer" folder.)

One of our most thorough eagle censuses.

Lentfer, H. and A. Maier. 1989. Wildlife and vessel observations in the Beardslee Islands in the early summer, 1989. Unpublished. 11p. (GBNP Resource Management files: "Researcher: Lentfer" folder.)

Useful synopsis of sightings and sight identification for several mammal species.

Letarte, J. and R. Strottemeyer. 1984. Baseline stream water chemistry for watersheds of Glacier Bay National Park, Alaska. Unpublished progress report. 20p. (GBNP Resource Management files: "Water resources" box.)

Measurements of Wolf Creek, Berg Bay South, Ice Valley, and Nunatak Creek, with discussion.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

Lilleskov, E. 1990. Vegetation patterns on six newly emerging islets in Glacier Bay, Alaska: observations and speculations. Unpublished report, University of Vermont, Department of Botany. 25p. (Streveler personal library.)

Good description of vegetation on islet in the Beardslees, with ideas on factors involved in generating observed patterns.

Lipkin, R. 1990. Candidate sensitive plant taxa of Chugach and Tongass National Forests. Unpublished Nature Conservancy report, Anchorage, AK. 16p. (Streveler personal library.)

Tabulates and compares several sensitive plant lists, including those of M. Muller for the Tongass; these latter are quite relevant to Glacier Bay National Park.

Martin, J.R., W.W. Brady, and J.W. Downs. 1985. Preliminary forest plant associations (habitat types) of southeast Alaska: Chatham Area, Tongass National Forest. U.S. Forest Service, Sitka, AK. 91p. (GBNP Resource Management files: "Vegetation management" box.)

Highly useful; includes all U.S. Forest Service lands adjacent to Park.

Matkin, D. 1989. Beardslee Island survey. Unpublished. 50p. (GBNP Resource Management files: "Seabird monitoring" box.)

Repetitive survey of marine birds in a fashion comparable to studies over the past few years, for purpose of creating a baseline.

Mattson, C. 1959. Survey notes on salmon streams within Glacier Bay National Monument. Unpublished U.S. Fish & Wildlife Service letter and report. 7p. (GBNP Resource Management files: "Fishing History" box.)

Mostly of historical interest; particularly noteworthy that Bartlett River was still turbid at that time.

McLoughlin, M. 1985. Observation of molting Canada geese in Adams Inlet. Unpublished. 3p. (GBNP Resource Management files: "Moulting Birds" box.)

Continuation of yearly monitoring.

Metsker, H. 1982. Toxicity of certain heavy metals on fish in the aquatic environment. Unpublished. 10p. (GBNP Resource Management files: "Minerals Management" box.)

Useful summary of heavy metal impact susceptibilities.

Mills, D. and R. Caulfield. 1979. Natural history field notes. Unpublished. 20p. approx. (GBNP Ranger files, 1979 field notes.)

Abstracted bird and mammal notes made while on summer duty in Glacier Bay; particularly good list of porpoise sightings.

Milner, A. 1990. Biotic community development in new streams, summer 1990. Unpublished. 2p. (GBNP Resource Management files: "Researcher: Milner" folder.)

Synopsis of 14-year study of colonization of Wolf Point Creek by invertebrates and fishes.

Milner, A. 1990. Stream community development following glacial recession in coastal Alaska. Unpublished. 23p. (GBNP Resource Management files: "Researcher: Milner" folder.)

Draft of paper to be published; highly useful overview of work at Glacier Bay and Kenai Fjords.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

Mow, J. 1989. Bald eagle report. Unpublished. 7p. (GBNP Resource Management files: "Inventorying & Monitoring" box.)

Gives results of boat-based eagle counts in study areas along mid-Glacier Bay; discusses survey problems; compares data with 1982 U.S. Fish & Wildlife Service survey of same area.

Nelson, J. and W. Lehnhausen. 1983. Marine bird and mammal survey of the outer coast of southeast Alaska, summer 1982. U.S. Fish & Wildlife Service, Anchorage, AK. 310p. (GBNP Resource Management files: "Seabird monitoring" box.)

Important extensive surveys of outer waters and Glacier Bay, with much discussion of results and former work.

Nigro, M. 1973. Natural history field notes. Unpublished. 20p. approx. (GBNP Ranger files, 1973 field notes.)

Abstracted bird and mammal observations made while on summer duty in Glacier Bay.

Nigro, M. and W. Boehm. 1972. Natural history field notes. Unpublished. 50p. approx. (GBNP Ranger files, 1972 field notes.)

Generally good account of mostly bird and mammal observations made in the Dundas Bay Icy Strait area while on summer duty as field rangers.

Patten, S. 1981. Seasonal use of coastal habitat from Yakutat Bay to Cape Fairweather by migratory seabirds, shorebirds, and waterfowl. Unpublished. 2p. (GBNP Resource Management files: "Bird research" box.)

Condensed summary of a highly useful survey that extended through a yearly cycle.

Perensovitch, M. 1968. Joint survey by U.S. Forest Service and Alaska Department of Fish and Game, April. Unpublished U.S. Forest Service report, Juneau, AK. 5p. (GBNP Resource Management files: "Moose (general)" box.)

Compares comprehensive April surveys done during 1964 and 1968; concludes that variation may be due mostly to census conditions.

Perrelli, R. 1985. Sea otter outer coast observations, summer 1985. Unpublished. 6 p. (GBNP Ranger files, 1985 field notes.)

Terse, to-the-point summary of observations made systematically from Spencer tp Torch and opportunistically to the northward.

Perrelli, R. and P. Brown. 1986. Natural history field notes. Unpublished. 20p. approx. (GBNP Ranger files, 1986 field notes.)

Abstract of field notes by two good observers from summer patrols in Glacier Bay.)

Post, A. 1973. Alaska photo flight and glacier observations. Unpublished U.S. Geological Survey memorandum to Mark Meier, U.S. Geological Survey, Tacoma. 5p. (GBNP Resource Management files, folder 3031.)

Highly useful account of 9/18/73 overflight of Muir and Upper Glacier Bay.

Powell, R. 1990. Layman's abstract for 1990 field season. Unpublished. 2p. (GBNP Resource Management files: "Researcher: Powell" folder.)

Sketch of summer work with remote-guided sub exploring glacier margin ice characteristics and sediments.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

Prussin, L. and K. Fister. 1988. Survey of Canada geese in Adams Inlet. Unpublished. 3p. (GBNP Resource Management files: "Moulting birds" box.)

August 4-7 follow-up of earlier work, showing that geese were done moulting by then.

Ratti, J. and P. Saunders. 1983. Proposal for study of moulting Vancouver Canada geese (*b.c. fulva*) at Glacier Bay. Unpublished. 4p. (GBNP Resource Management files, folder 2219g.)

Excellent brief summary of some population implications of banding data to date, with suggestions for future research.

Rivers, M. 1982. Bartlett Cove bears. Unpublished. 5p. (GBNP Resource Management files: "Bears: Glacier Bay Research" box.)

Brief but interesting history of bears at Bartlett Cove; summary of this year's events.

Ritter, J. 1978. Glacier Bay National Monument, Alaska: bear management plan. Unpublished. 9p. (GBNP Resource Management files: "Bears: Management plans" box.)

Contains brief but useful accounts of bear biology in Monument, and interactions with people.

Rugh, D. 1975. Bird and mammal observations, Glacier Bay National Monument. Unpublished. 145p. (GBNP Resource Management files, folder 1400.)

A major work on the sightings made by an excellent observer in the course of a summer's geology work in the Dixon Hbr.—Brady G1.—Dundas Bay area.

Schoen, J., M. Kirchhoff, and J. Hughes. 1988. Wildlife and old-growth forests in southeastern Alaska. Unpublished Alaska Department of Fish & Game report. 25p. (Streveler personal library.)

Highly useful summary, with good literature review.

Schroeder, M. 1989. Scoter survey comparison. Unpublished. 2p. (GBNP Resource Management files: "Moulting birds" box.)

Tabulation of counts for the Hugh Miller study area, 1984-1989, with an additional 1989 count for Geikie Inlet.

Schroeder, M. 1990. The salmon resources of seven spawning streams within Glacier Bay National Park, Alaska. Unpublished. 3p. (GBNP Resource Management file: "Salmon 1990" folder.)

Gives 1990 data for systems distributed from Dundas (Seclusion system) to Upper Glacier Bay (Vivid and Wolf Point systems).

Selig, L. 1985. Backcountry impact: Riggs Glacier. Unpublished. 2p. (GBNP Ranger files: "Camper surveys" folder.)

Good succinct account of impacts, with comparisons to 1983.

Selig, L. and C. Acuña. 1983. Natural history field notes. Unpublished. 40p. approx. (GBNP Ranger files, 1983 field notes.)

Abstract of field notes from summer along outer coast, with inclusion of stream survey and eagle nest observations forms; very useful compendium.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

Selig, L. and R. Miller. 1982. Natural history field notes. Unpublished. 50p. approx. (GBNP Ranger files, 1982 field notes.)

Abstract of field notes from summer along outer coast, with inclusion of stream survey forms and beach survey forms, the lot giving a good picture of what was seen.

Sharman, L. and K. Coghill. 1982. East arm preliminary moose browse survey. Unpublished. 4p. (GBNP Resource Management files: "Moose (general)" box.)

One-day mid-August visits to Hunter Cove, Forest Creek, Morse Creek, and Ice Valley to make qualitative assessment of pattern and intensity of moose browsing.

Sharman, L. and E. Babcock. 1983. Observations of moulting Canada geese in Adams Inlet. Unpublished. 5p. (GBNP Resource Management files: "Moulting birds" box.)

Counts with good discussion of results; includes observations on disturbance.

Sharman, L. and E. Babcock. 1983. Willoughby Island deer survey. Unpublished. 2p. (GBNP Resource Management files: "Sitka deer research" box.)

Gives results of survey of west half of island and summarizes results of similar survey of east side last year: both negative; both turned up wolf sign.

Sharman, L. 1989. Why are there no starfish near the glaciers, or Marine intertidal "succession" in Glacier Bay: patterns, processes, and comparison with terrestrial plant succession. Unpublished. 3p. (GBNP Resource Management files, 2219m.)

Layperson'-oriented account of the major thrust of his Ph.D. research.

Sharman, L. 1991. *Fucus* growth and tidewater glaciers: another piece in the intertidal community development puzzle. Unpublished. 4 p. (GBNP Resource Management files: "Researcher: Sharman" folder.)

Synopsis of *Fucus* autecology along Glacier Bay chronosequence.

Shepard, M. 1990. A vegetation pattern in relation to geomorphology on Strawberry Island in Glacier Bay, Alaska. Unpublished report, University of Vermont, Department of Botany. 13p. (Streveler personal library.)

Very useful look at two major vegetation types on the island and their geomorphic context.

Sowls, A. 1981. Colony status records for six outer coast colonies, Glacier Bay National Park. Unpublished U.S. Fish & Wildlife Service forms. 30p. approx. (GBNP Resource Management files: "Seabird surveys" box.)

Basic data from which Sowls, A., et al., 1982, was compiled, in part.

Spicer, R. and L. Prussin. 1989. Molting Canada geese census, Adams Inlet. Unpublished. 8p. (GBNP Resource Management files: "Moulting birds" box.)

Presents 1989 counts; addenda give synopses of data from 1983 to 1989.

Streveler, G. 1972. Winter eagle survey, Glacier Bay, February 11-15 and 23, 1972. Unpublished. 3p. (GBNP Resource Management file: "Eagle" box.)

Count done in conjunction with extensive seal count via boat and aircraft.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

Streveler, G.P. 1983. Details of glacier behavior and geography, Glacier Bay, since the retreat of Wisconsin ice. Unpublished.. 10p. (Streveler personal library.)

A rough manuscript putting together an argument based on radiocarbon dates, geological interpretations thereof, and a goodly measure of speculation.

Streveler, G.P. 1985. Species represented in the Glacier Bay herbarium. Unpublished. 25p. (GBNP Resource Management files: "Vegetation management" box.)

Manuscript matrixing plant species against geographic area of collection.

Streveler, G.P. and others. 1986. Herbarium plant community notebook. Unpublished. 50p. approx. (Herbarium.)

Contains: key to plant communities, list of plants found in each community type, complete species list, and plants not found in Park herbarium.

Streveler, G.P. and L. Smith. 1987. Endicott Gap large mammal survey. Unpublished. 13p. (GBNP Resource Management files: "Endicott Gap" folder.)

Discusses results of year-long survey of reputed animal corridor from Adams Inlet to Lynn Canal, giving mammal species accounts and a bird list. Gives postscript with some changes from west of study area (1978) and time of writing (1987).

Streveler, G.P. 1987. A natural history of Gustavus. Unpublished. 50p. (Streveler personal library.)

Wide-ranging depiction of the Gustavus forelands since their inception as a terrestrial feature.

Streveler, G.P. and L. Smith. 1988. The Glacier Bay shore zone: a preliminary assessment of potentials for resource/user conflicts. Unpublished. 8p. report, 2 vols. data. (GBNP Resource Management files.)

Major work. Raw data and a copy of the report (minus some of the important maps) have been found.

Streveler, G.P. 1988. Use limits for Glacier Bay. Unpublished. 15p. (GBNP Resource Management files: "Inventorying & Monitoring" box.)

Manuscript of a comprehensive framework for research on indicator species as a precursor to carrying capacity determinations. Gives rationales, species, and areas for study.

Streveler, G.P. 1988. Analysis of the Engstrom pollen profile from Pleasant Island. Unpublished. 3p. (Streveler personal library.)

Attempt to define vegetation at various times since the retreat of Wisconsin ice by reflecting on the significance of the pollen record for those times.

Streveler, G.P. 1989. Accumulation of debris and bird/mammal carcasses on GLBA beaches: a summary of existing data. Unpublished. 5p. (GBNP Resource Management files: "Beach and debris" box.)

Pulls together data from 1976-89 for outer coast—Icy Strait beaches as baseline.

Streveler, G.P. 1989. Beardslee Island bird/marine mammal surveys. Unpublished. 25p. (GBNP Resource Management files: "Seabird monitoring" box.)

Monthly surveys done over a year's time following Bevin's method raw data. Narrative missing.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

Streveler, G.P. 1989. Black-legged kittiwakes of Glacier Bay National Park. Unpublished. 3p. (GBNP Resource Management files: "Seabird monitoring" box.)

Results of 1989 counts of Park colonies with comparisons to past data.

Streveler, G.P. 1989. Sea otters of Glacier Bay National Park, 1987-1989. Unpublished report to National Park Service, Gustavus, AK. 5 p.

[No annotation.]

Streveler, G.P. 1989. Summary of 1970-1989 eagle and eagle nest data for Glacier Bay: progress toward a baseline. Unpublished. 8p. (GBNP Resource Management files: "Eagles" box.)

Evaluation of data on hand to date, with suggestions for the future.

Summers, C. and D. Nemeth. 1979. Natural history field notes. Unpublished. 30p. approx. (GBNP Ranger files, 1979 field notes.)

Abstracted bird and mammal notes from summer duty on outer coast.

Swartzbeck, F. 1988. Beardslee Island survey data. Unpublished. 20p. (GBNP Resource Management files: "Seabird monitoring" box.)

Marginally useful surveys done according to Bevin's format, but by an untrained observer. Raw data.

Swartzbeck, F. and L. Kenny. 1988. Molting Canada goose census, Adams Inlet. Unpublished. 8p. (GBNP Resource Management files: "Moulting birds" box.)

Continuation of series on moulting geese; includes bird list made during observation period.

Swartzbeck, F. and J. Warburton. 1988. Molting scoter census in the Hugh Miller area. Unpublished. 6p. (GBNP Resource Management files: "Moulting birds" box.)

Counts repeating methods of others in 1984 and 1987; includes data on moulting mergansers and geese as well.

Taylor, M. 1984. Bear survey at Sandy Cove. Unpublished. 1p. (GBNP Resource Management files: "Bears" box.)

Discussion of a two-day reconnaissance.

Taylor, M. 1984. Survey of molting geese in Adams Inlet. Unpublished. 4p. (GBNP Resource Management files: "Moulting birds" box.)

Gives results of counts and makes comparisons to previous reports.

Timm, D. and F. Robards. 1973. Glacier Bay goose banding project - 1973. Unpublished U.S. Fish & Wildlife Service/Alaska Department of Fish & Game report. 3p. (GBNP Resource Management files, folder 1419.)

Gives brief account of U.S. Fish & Wildlife Service/Alaska Department of Fish & Game banding studies at Glacier Bay, with summary of band recovery results and significance.

U.S. Army Corps of Engineers. 1984. Small scale hydropower for Gustavus, Alaska: letter report. Alaska District, Anchorage, AK. 63p. (GBNP Resource Management files: "Other environmental assessments" box.)

Gives broad, useful overview of community; brief description of Fall Creek environment.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

U.S. Department of the Interior Alaska Power Administration and U.S. Department of Commerce National Marine Fisheries Service. 1975. Lynn Canal Environmental Assessment. 169p. (GBNP Resource Management files: "Other environmental assessments" box.)

Broad, useful description of environment.

U.S. Forest Service. 1963. Salmon habitat reconnaissance, Yakutat, Chatham Ranger District. Unpublished report. 2p. (GBNP Resource Management files: "Additional stream surveys" box.)

Historical account of East Alsek River, with discussion of its origin and fisheries.

U.S. National Park Service. 1956. Superintendent's Annual Research Reports. Unpublished. Voluminous. (GBNP Resource Management files, folders 2219a-n.)

Exist, complete or in part, for 1956-1990; master list of research projects for year exists in all cases except 1979. Excellent overview of on-going research.

U.S. National Park Service. 1957. Annual Wildlife Reports. Unpublished. Voluminous. (GBNP Resource Management files: "Annual Wildlife Report" folder. Should be organized species by species for the period of record.)

This very important source of wildlife information is available for 1957, 60, 62, 64, 66-78.

U.S. National Park Service. 1965?. Inventory of the fishery (stream), Glacier Bay National Monument. Unpublished. 50p. approx. (GBNP Resource Management files, folder 1423.)

Early stream catalog with important historical info on some streams.

U.S. National Park Service. 1979. Environmental consequences on mineral extraction--Glacier Bay National Monument and Mount McKinley National Park: Report to the Congress of the United States. Anchorage, AK. (GBNP Resource Management files: "Park environmental assessment" box.)

Contains useful description of the environment; especially good graphics.

U.S. National Park Service. 1984. Schumacher's proposed Dry Bay fish processing plant environmental assessment, Glacier Bay National Preserve. Unpublished. 17p. (GBNP Resource Management files: "Park environmental assessment" box.)

Contains brief but useful description of Dry Bay environment.

U.S. National Park Service. n.d.. Annual Aquatic Resources Report. Unpublished. Voluminous. (GBNP Resource Management files, folder 2621d.)

Exists for years 1965-80, except for 1973,75; cursory but useful perspectives, especially on commercial fisheries.

U.S. National Park Service. n.d. Glacier Bay National Park stream catalog. Unpublished. 5 vols. (GBNP Resource Management files)

Compendium of information on Park streams, emphasizing fish counts and hydrology. Doesn't include most published information or Ranger log information.

U.S. National Park Service. n.d. Miscellaneous weather, snow, and ice condition observations. Unpublished. Voluminous. (GBNP Resource Management files, folder 42.)

A variety of systematic observations, mostly for 1958-1965, from various field stations and patrols; mostly of historical interest.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

U.S. National Park Service. n.d. Wildlife distributional records. Unpublished. Voluminous.

Repositories:

- observation cards
- current mammals: Schroeder
- all birds: Paige
- pre-1989 mammals: archives room
- summaries for annual wildlife reports: archives room.
- range maps: archives room.
- Ranger field notes: Ranger office (see other cards for individual good sets of notes)
- Naturalist logs and data sheets: Paige

U.S. National Park Service. n.d. Wildlife trip reports. Unpublished. Voluminous. (GBNP Resource Management files, folder 1400. Should be organized species by species for the period of record.)

Immensely valuable assemblage of materials from trips of various sorts throughout the Park that had wildlife observation as a major focus.

Vequist, G. 1982. A tabulation of bird colonies for Glacier Bay National Park. Unpublished. 6p. (GBNP Resource Management files, folder 1419.)

Important listing of colonies, with estimate of species present and numbers.

Vequist, G. and D. Chase. 1982. Winter eagle counts. 1p. (map) (GBNP Resource Management files: "Eagles" box.)

Map showing three vessel itineraries taken in March 1982, from Dundas to Upper Glacier Bay, indicating eagle sightings.

Vequist, G. 1988. Moose browse survey: Adams Inlet. Unpublished. 13p. (GBNP Resource Management files: "Moose (general)" box.)

Reports on results of observing effects of moose browsing on 23 tagged willows in the Forest Creek - Klotz Hills area over a two-year period. Very rough draft.

Vequist, G. n.d. Excerpts from Annual Wildlife Reports concerning moose, 1960-1975. Unpublished list. 5 . (GBNP Resource Management files: "Moose (general)" box.)

Cut and paste of pertinent paragraphs.

Vequist, G. n.d. Aerial moose surveys of the East Muir - Adams area. Unpublished. 10p. (GBNP Resource Management files: "Moose (general)" box.)

Surveys carried out on a standard route on: 3/24/84, 3/8/85, 12/29/85, and 3/13/87. No text.

Warburton, J. 1988. A background survey of the distribution, movements, and habitats of the brown bear in the west arm of Glacier Bay National Park and Preserve. Unpublished. 70p. approx. (GBNP Resource Management files, folder 1427c.)

Important paper on the bears of the Tarr - Russell area, based on a summer's field work.

Wik, D. 1969-1971. Natural history log: birds. Unpublished. 100 p. approx. (GBNP Ranger files, in black binder with 1971 materials.)

Voluminous compendium of bird records by Wik for these years as a patrol ranger; superb—among our best natural history reference.

ANNOTATED BIBLIOGRAPHY OF UNPUBLISHED MATERIAL IN GLACIER BAY NATIONAL PARK AND PRESERVE (GBNP) OFFICE FILES AND IN STREVELER LIBRARY--Continued

Wik, D. 1970. Natural history log. Unpublished. 36p. (GBNP Ranger files, 1970 field notes.)

Excellent compendium of observations from summer Glacier Bay patrols.

Wik, D. 1971. Natural history log. Unpublished. 40p. approx. (GBNP Ranger files, 1971 field notes.)

Another of Wik's unsurpassed jobs at taking cogent, organized notes of observations in Glacier Bay during his summer work.

Wik, D. and J. Hok. 1967. Field notes, Glacier Bay. Unpublished logs. 2 vols. (GBNP Ranger files, 1967 field notes.)

Superb set of field notes recording wide variety of natural history phenomena.

Wik, D., D. Cornelius, A. Haecker, and D. Payne. 1969. Seasonals' natural history notes, 1969. 200p. approx. (GBNP Ranger files, 1969 field notes.)

Spotty but often excellent compendium covering much of Park.

Wolfe, D. 1989. Brown bears in the upper west arm of Glacier Bay: shoreline numbers, movement patterns, and habitat usage. Unpublished. 143p. (GBNP Resource Management files: "Bears: Glacier Bay research" box.)

Major work on subject; includes summary of work done to date.

Woll, M.S. 1970. Natural History "Black Blaney Book". Unpublished. 30p. approx. (GBNP Ranger files, 1970 field notes.)

Dutiful account by reasonably good observer of observations made as summer ranger, Glacier Bay.

Worley, I. et al. 1985. Primary succession at Glacier Bay, Alaska: nutrient cycling, soil development, facilitation, and convergence. Proposal to the National Science Foundation. Unpublished. 112p. (GBNP Resource Management files, folder 2219x.)

Introductory materials provide valuable overview of question of succession as it was defined for Glacier Bay in 1985.