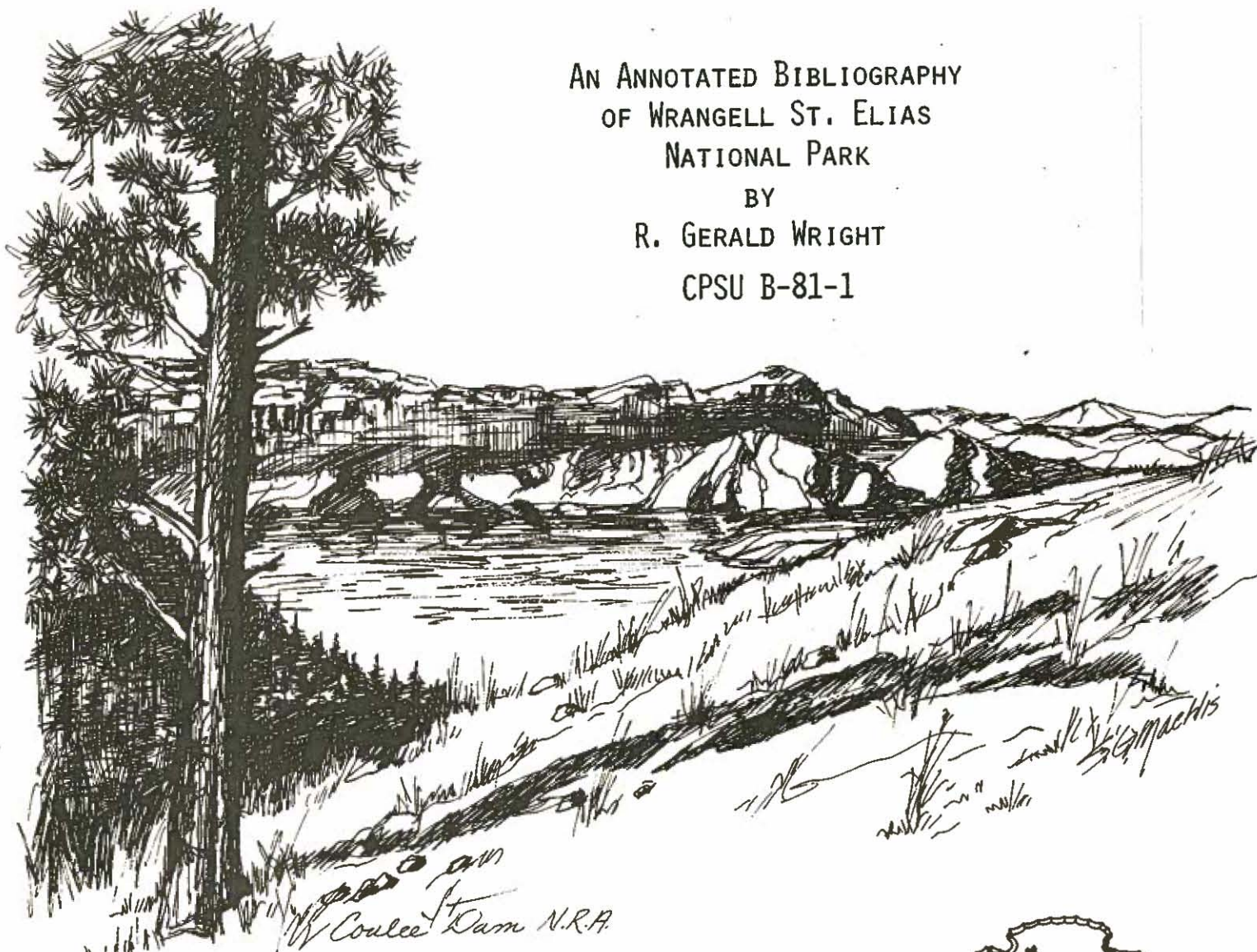


# COOPERATIVE PARK STUDIES UNIT

## UNIVERSITY OF IDAHO

AN ANNOTATED BIBLIOGRAPHY  
OF WRANGELL ST. ELIAS  
NATIONAL PARK

BY  
R. GERALD WRIGHT  
CPSU B-81-1



University of Idaho  
College of Forestry,  
Wildlife and Range Sciences  
Moscow, Idaho 83843



## INTRODUCTION

This report presents a compendium of literature citations for the Wrangell St. Elias region in south central Alaska, primarily emphasizing the lands within the Wrangell St. Elias National Park. Although all known publications have been compiled, this report does not portend to present a complete list of all literature published on the region.

The lands within the Wrangell St. Elias National Park encompass some of the highest mountains and largest glacial systems in North America. The geologic and hydrologic diversity is unparalleled. Portions of the region such as the Chitina Valley and Nabesna have had a long history of mineral exploration with the major focus being the Kennecott copper complex near McCarthy. All of these factors are reflected in the emphasis given to past research and studies. Geology, mineralogy, and glaciology, as well as general geographic overviews emphasizing the region's superb scenic resources have predominated in the literature. On the other hand, there are fewer published studies of the floral and faunal components, and this represents a fruitful area for future research.

Over the past five years, the National Park Service through its Alaska Task Force has extensively studied the Wrangell region as part of the "d-2" land withdrawal program. These studies have resulted in extensive internal reports and maps, often used in the Congressional decision making process. While these reports contain a wealth of data and information, most have unfortunately not been published in a retrievable form and therefore are not included in this report.

This report contains over 300 citations which are numbered and listed alphabetically and categorized into 18 subject areas as follows.

## SUBJECT AREAS

## CLIMATOLOGY

47, 48, 51, 131, 132, 142, 143, 146, 147, 148, 149, 150, 286, 299

## FAUNA

7, 57, 107, 110, 112, 126, 134, 135, 215, 218, 219, 222, 235,  
268, 279, 290, 291, 297, 311

## FISH

279, 288, 290, 291, 300

## GEOGRAPHY

1, 2, 3, 5, 13, 14, 17, 25, 27, 42, 52, 53, 55, 56, 59, 60, 61, 74,  
77, 96, 98, 108, 121, 178, 190, 263, 265, 266, 279, 295, 308

## GEOLOGY

8, 22, 23, 35, 43, 44, 53, 54, 61, 62, 64, 66, 67, 78, 89, 90,  
95, 97, 99, 105, 113, 114, 117, 125, 127, 137, 152, 153, 154, 155,  
159, 160, 169, 170, 171, 172, 173, 174, 179, 182, 184, 185, 195,  
196, 197, 198, 199, 200, 201, 203, 204, 205, 206, 208, 212, 217,  
226, 227, 228, 233, 237, 238, 239, 240, 242, 243, 244, 245, 247,  
248, 249, 250, 251, 253, 254, 255, 256, 257, 258, 264, 269, 282,  
284, 302, 310

## GEOPHYSICS

26, 45, 46, 49, 50, 87, 285

## GLACIOLOGY

20, 21, 24, 28, 29, 30, 31, 32, 33, 34, 37, 39, 63, 64, 68, 70,  
82, 83, 84, 85, 86, 94, 103, 136, 186, 187, 188, 232, 234, 281, 306

## HISTORY - ARCHEOLOGY

1, 2, 3, 9, 13, 14, 15, 36, 41, 79, 80, 81, 102, 123

## HYDROLOGY

16, 18, 71, 224, 225, 236, 267, 290, 291, 301

## KENNECOTT MINES

36, 40, 91, 102, 120, 122, 124, 128, 139, 141, 151, 156, 283

## LAND USE

59, 98, 116, 121, 262, 280, 290, 291, 305, 307

## MINING &amp; MINERALS

11, 12, 23, 36, 40, 54, 62, 67, 72, 73, 91, 92, 102, 111, 113, 119,  
124, 129, 130, 141, 157, 158, 160, 161, 162, 163, 164, 165, 166,  
167, 168, 176, 180, 181, 183, 193, 194, 195, 202, 207, 209, 210, 211,  
212, 231, 232, 237, 240, 246, 252, 259, 260, 269, 278, 287, 289, 294, 298

**NATIVE PEOPLES**

41, 81, 106, 120, 130, 133, 228, 304, 312, 313, 314, 315, 316

**RECREATION**

17, 55, 56, 74, 98, 100, 102, 104, 216, 230, 279, 280, 290, 391,  
304, 307, 309

**SOCIO-ECONOMIC**

4, 10, 106, 118, 140, 177, 213, 261, 312, 314

**TRANSPORTATION**

6, 120, 122, 175, 292

**VEGETATION**

19, 75, 76, 85, 88, 109, 115, 136, 220, 221, 270, 271, 272, 273,  
274, 275, 277, 279, 290, 291, 293, 296

**VOLCANOLOGY**

32, 33, 34, 35, 38, 65, 93, 138, 191, 192



1. Abercrombie, W.R. 1884. Report of a supplementary expedition into the River Valley, Alaska. U.S. Govt. Printing Office. Wash. D.C.
2. Abercrombie, W.R. 1898. Copper River exploring expedition. U.S. Govt. Printing Office, 1900.
3. Abercrombie, W.R. 1899. Report of explorations in the territory of Alaska. 1898. U.S. Congress, Senate Committee on Military Affairs, 1900:563-591.
4. AHTNA Inc. 1973. The AHTNA Region: Background for regional and community planning. Arctic Environmental Information and Data Center, Univ. of Alaska. Anchorage, AK.
5. Alaska Geographic Magazine. 1975. Yakutat: The turbulent crescent. Vol 2(4).
6. Alaska Dept. of Highways. 1973. Chitina-McCarthy Highway: Environmental Impact Statement (Project S-0850 (4), Southcentral District).
7. Alaska Dept. of Fish & Game. 1977. Southcentral moose population studies. Vol. I. Final Report. Fed. Aid in Wildlife Restoration Proj. W-17-6,-7.
8. Alaska Division of Geological and Geophysical Surveys. 1973. Aeromagnetic map, Nabesna quadrangle, Alaska. Alaska Div. Geol. Geophys. Open-file Rep. 13, 1 sheet, scale 1:250,000.
9. Alaska Division of Parks. 1974. Lower Copper and Chitina Rivers: An historic resource study. History and Archaeology Ser. 5. Misc. Pub., Ak. Div. Parks. Juneau.
10. Alaska State Housing Authority. 1971. Yakutat Alaska. Comprehensive development plan. 132. p.
11. Alaskan Geology Branch, U.S. Geological Survey. 1972. The status of mineral resource information on the major land withdrawals of the Alaska Native Claims Settlement Act of 1971. U.S. Geol. Surv. open-file rep. 164 p.
12. Albert, N.R.D. 1975. Interpretation of Earth Resources Technology Satellite imagery of the Nabesna quadrangle, Alaska. U.S. Geol. Surv. Misc. Field Studies Map MF-655J, 2 sheets, scale 1:250,000.
13. Allen, H.T. 1887. Report of an expedition to the Copper, Tanana, and Koyukuk Rivers, in the Territory of Alaska, in the year 1885. Washington, U.S. Govt. Printing Office. 172 p.
14. Allen, H.T. 1887. Report of a military reconnaissance in Alaska made in 1885. U.S. Govt. Printing Office.
15. Allen, H.T. 1889. Atnatanas: Natives of Copper River, Alaska. Ann. Rep. Smithsonian Insti. Washington. Available through NTIS.

16. Alpha, T.R. 1975. The evolution of Icy Bay, Alaska. p. 4-9. P. Carlson, (ed.). Principal sources and dispersal patterns of suspended particulate matter in near shore surface waters of the Northeast Pacific Ocean. U.S.G.S. Rep. Prepared for Goddard Space Flight Center, Nat. Tech. Info. Serv. E75-10266.
17. Amedeo, L. 1900. The ascent of Mount St. Elias. Westminster and Archibald Co. Whitehall Gardens. England.
18. Anderson, G.S. 1970. Hydrologic reconnaissance of the Tanana basin, central Alaska: U.S. Geol. Survey Hydrol. Inv. Atlas HA-319, 4 sheets.
19. Anderson, J.P. 1959. Flora of Alaska and adjacent parts of Canada. Iowa State Univ., Press. Ames, Iowa. 543 p.
20. Aufdenberger, T.P. 1971. Energy balance studies over glacier and tundra surfaces, Chitistone Pass, Alaska, summer 1969. Ph. D. Dissertation. Univ. Michigan. Ann Arbor, Mich.
21. Aufdenberger, T.P. 1974. Energy-balance studies over glacier and tundra surfaces, Chitstone Pass, Alaska, Summer 1969. p. 63-80. In: V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Research Project scientific results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. North Amer.
22. Barnes, D.F., and Morin, R. L., 1975, Gravity map of the Nabesna quadrangle, Alaska. U.S. Geol. Survey Misc. Field Studies Map MF-655I, 1 sheet, scale 1:250,000.
23. Bateman, A.M. and McLaughlin, D.H. 1920. Geology of the ore deposits of Kennecott, Alaska. Econ. Geol. 15:1-80.
24. Bayrock, L.A. 1967. Catastrophic advance of the Steele Glacier, Yukon, Canada. Boreal Inst., Univ. Alberta. Pub. No. 3. 35 p.
25. Belcher, E. 1843. Narrative of a voyage round the world performed in her Majesty's Ship Sulphur during the years 1836-1842. London, Henry Colborn. (p. 79-80. Icy Bay exploration).
26. Benjey, W.G. 1974. The effects of forest-fire smoke on insolation in the St. Elias Mountains. p. 129-132. In: V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Research Project. Scientific Results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. North Amer.
27. Beiser, A., 1953. Mt. Wrangell Expedition. Physics Today. Oct. p. 10-14.
28. Benson, C.S. 1962. Reconnaissance snow studies on Mt. Wrangell, Alaska. Bull. Amer. Metrol. Soc. 43:140.
29. Benson, C.S., 1963. Reconnaissance snow studies on Mt. Wrangell, Alaska. Geophysical Institute, Univ. of Alaska, Final report prepared for CRREL under Contract No. DA 11-190-ENG-131. 38 pp.
30. Benson, C.S. 1968. Glaciological studies on Mt. Wrangell, Alaska, 1961. Arctic. 21:127-152.

31. Benson, C.S., D.K. Bingham, R.B. Forbes, J. Kienle and G.B. Wharton. 1965. Wrangell Mountains, Alaska, Annual Report 1964-65, Geophysical Institute, University of Alaska, p. 55-69 (Brief reports on Mt. Wrangell research are cited in Annual Reports of the Geophysical Institute as follows: 1963-64, p. 52-53; 1964-1965 p. 55-59, p. 76; 1965-66, p.58-59; 1966-67, p. 67-69.
32. Benson, C.S. and R.B. Forbes, 1965. Reconnaissance glaciological and volcanological studies, Mt. Wrangell, Alaska (abstract), Proc. of the 15th Alaskan Conference, p. 93-94.
33. Benson, C.S., D.K. Bingham and G.B. Wharton. 1975. Glaciological and volcanological studies at the summit of Mt. Wrangell, Alaska, Pro. XV General Assembly, IUGG, Moscow, August 1971, IAHSASH Publ. No. 104, p. 95-98.
34. Benson, C.S. and R. J. Motyka, 1975. Recent glaciological and\* volcanological studies at the summit of Mt. Wrangell, Alaska EOS, Trans. A.G.U., Vol. 56, No. 12, p. 1073.
35. Berg, H.C., Jones, D.L., and D.H. Richter. 1972. Granvina-Nutzotin belt - Tectonic significance of an upper Mesozoic sedimentary and volcanic sequence in southern and southeastern Alaska. p. D1-D24. In Geological Survey research 1972. U.S. Geol. Surv. Prof. Paper 800-D.
36. Berger, C.L. 1921. Story of Kennecott Copper. Part 1. Empire building and builders. The Financial World. May 23; 893-895.
37. Bingham, D.K. 1967. Ice motion and heat flow studies on Mt. Wrangell, Alaska. M.S. Thesis. Univ. of Alaska.
38. Bingham, D.K. and C.S. Benson. 1968. Ash temperature variations on Mt. Wrangell, Alaska, New Zealand J. Geol. and Geophy. 2:781-786.
39. Bingham, D.K. and C.S. Benson, 1967. Glaciological studies on Mt. Wrangell, Alaska. Part II: Ice Motion and Heat Flow Studies. Proc. 18th Alaska Sci. Conf.
40. Birch Stephen. 1925. Geology and mining methods of Kennecott Mines. Trans. Amer. Insti. of Mining and Metallurgical Engineers. 72:499-510.
41. Birket-Smith, K. and F. deLaguna. 1938. The Eyak Indians of the Copper River Delta, Alaska. Copenhagen. Levin & Minksgaard.
42. Black, R.F. 1958. Wrangell Mountains. p. 30-33. IN: H. Williams. (ed.) Landscapes of Alaska. Univ. Calif. Press, Berkeley.
43. Bond, W.A. 1973. Permian sediments and stratigraphy in the Slana area, Alaska. M.S. Thesis. Colorado Univ. Boulder, Colo.
44. Brabb, E.E., and D.J. Miller. 1962. Reconnaissance traverse across the eastern Chugack Mountains, Alaska. U.S. Geol. Surv. Misc. Geol. Inv. Map I-341.

45. Brazel, A.J. 1970. Surface heat exchange at Chitistone Pass, Alaska. *Proc. Assoc. Amer. Geogr.* 2:26-30.
46. Brazel, A.J. 1972. Active layer thermal regimes in an alpine pass, Chitistone Pass, Alaska. Ph.D. Dissertation. Univ. Michigan. Ann Arbor, Mich. 82 p.
47. Brazel, A.J. 1974. Micro- and Topo-climatology: The case of an alpine pass, Chitistone Pass, Alaska. p. 27-28. In: V.C. Bushnell and M.G. Marcus. (eds.). *Icefield Ranges Res. Proj. Scientific Results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.*
48. Brazel, A.J. 1974. A note on topoclimatic variation of air temperature, Chitistone Pass Region, Alaska p. 81-88. In: V.C. Bushnell and M.G. Marcus. (eds.) *Icefield Ranges Res. Proj. Scientific Results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.*
49. Brazel, A.J. 1974. Surface heat exchange at Chitistone Pass, Alaska p. 29-32. In: V.C. Bushnell and M.G. Marcus. (eds.). *Icefield Ranges Res. Proj. Scientific Results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.*
50. Brazel, A.J. and S.I. Outcal. 1974. The observation and simulation of diurnal surface thermal contrast in an Alaskan Alpine Pass. p. 33-40. In: V.C. Bushnell and M.G. Marcus (eds.). *Icefield Ranges Res. Proj. scientific results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N.A.*
51. Brazel, A.J. 1974. Comparison of estimated and observed solar radiation and counterradiation at Chitistone Pass, Alaska. p. 49-62. In: V.C. Bushnell and M.G. Marcus (eds.). *Icefield Ranges Res. Proj. scientific results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N.A.*
52. Brooks, A.H. 1900. A reconnaissance in the White and Tanana river basins, Alaska, in 1898. *U.S. Geol. Surv. 20th Ann. Rep. Part 7:425-494.*
53. Brooks, A.H. 1900. A reconnaissance from Pyramid Harbor to Eagle City, Alaska, including a description of the copper deposits of the upper White and Tanana Rivers. *U.S. Geol. Surv. 21st Ann. Rep., Part 2:333-391.*
54. Brooks, A.H. 1914. The Chisana placer district. *U.S. Geol. Surv. Bull. 592:309-320.*
55. Brown, C. 1978. August in the Wrangells. *Living Wilderness. Apr., June. p. 26-45.*
56. Brown, C. 1978. Wrangell-St. Elias: Alaska's Mountain Kingdom. *National Parks and Conservation. 52(8): 4-9.*
57. Bunnell, F. and Olsen, N. 1976. Weight and growth of Dall Sheep in Kluane Park Reserve. *Can. Field Nat. 90 (2):*



58. Bushnell, V.C. and R. Ragle. eds. (1969-1974). Icefield Ranges research project, scientific results. Vols. 1-4. Amer. Geogr. Soc. and Arctic Insti. of N. Amer. New York and Montreal.
59. Bureau of Outdoor Recreation. 1970. Wrangell Mountains Scenic Area: A proposal for the Copper and Chitina River Area, Alaska. Special Rep. U.S. Dept. Interior. Wash. D.C. 19 p.
60. Cahn, R. 1973. Wrangell. The biggest wilderness in the United States. Christian Science Monitor. Sept. 7: 9-10.
61. Cairnes, D.D. 1915. Upper White River district, Yukon. Canada Geol. Surv. Mem. 50 191 p.
62. Cairnes, D. and S. Capps. 1911. Geology and mineral resources of the Nizina District, Alaska. U.S. Geol. Serv. Bull: 448.
63. Capps, S.R. 1910. Glaciation on the north side of the Wrangell Mountains, Alaska. J. Geol. 18:33-57.
64. Capps, S.R. 1910. Quaternary deposits and glaciation. U.S. Geol. Surv. Bull. 417:36-44.
65. Capps, S.R. 1916. An ancient volcanic eruption in the upper Yukon Basin. U.S. Geol. Surv. Prof. Paper 95-D:59-64.
66. Capps, S.R. 1916. The Chisana-White River district, Alaska. U.S. Geol. Surv. Bull. 630, 130 p.
67. Capps, S.R. 1915. Mineral resources of the Chisana-White River district: U.S. Geol. Surv. Bull. 622:189-228.
68. Capps, S.R. 1932. Glaciation in Alaska. U.S. Geol Surv. Prof. Pap. 170:1-8.
69. Case, J.E., and E.M. MacKevett. 1976. MF-773-D. Aeromagnetic map and geologic interpretation of aeromagnetic map, McCarthy quadrangle. Scale 1:250,000. 2 sheets.
70. Chauvin, D.L. 1965. Field services, Mt. Wrangell Station. Ann. Rep. 1964-65. Geophysical Insti., Univ. of Alaska p. 76.
71. Childers, J.M. 1975. Channel erosion surveys along southern segment of the TAPS route, Alaska. 1972 and 1973. U.S. Geol. Survey open-file Rep. 57 p.
72. Cobb, E.H. 1973. Placer deposits of Alaska: U.S. Geol. Surv. Bull. 1374, 213 p.
73. Cobb, E.H. 1974. Selected U.S. Bureau of Mines reports on Alaska Indexed by quadrangle. U.S. Geol. Surv. open-file Rep 74-52.
74. Cook, F.T. 1968. Alaska's playground. The Living Wilderness. 102: 1-10.
75. Cooper, W. 1942. Vegetation of the Prince William Sound Region, Alaska, with a brief Excursion into Post-Pleistocene Climatic History. Ecol. Monogr. 12.

76. Crow, J. 1971. Effects of the March 27, 1964 earthquake on the plant ecology of the Copper River Delta, Alaska. Natl. Acad. Sci. Publ. 1604.
77. Cutter, D.S. 1972. Malaspina at Yakutat Bay. Alaska Jour. 2(4):42-49.
78. Deininger, J.W. 1972. Petrology of the Wrangell Volcanics near Nabesna, Alaska. M.S. Thesis. Univ. of Alaska. Fairbanks, AK.
79. DeLaguna, F. 1956. Chugach rehistory: The archaeology of Prince William Sound, Alaska. Univ. of Wash. Public. Anthropol. 13, 289 p. Seattle, Wash.
80. DeLaguna, F., and A. Riddel. 1964. Archaeology of the Yakutat Bay area. Amer. Ethnol. Bull. 192, 245 p. Smithsonian Inst., Washington, D.C.
81. DeLaguna, F. 1972. Under Mt. St. Elias: The history and culture of the Yakutat Tlingit. Smithsonian Insti. Contributions to Anthropology. 7. Smithsonian Press, Wash. D.C.
82. Denton, G.H. 1965. Late Pleistocene glacial chronology, northeastern St. Elias Mountains. Ph.D. Dissertation. Yale Univ. New Haven. 88 p.
83. Denton, G.H. and M. Stuiver. 1966. Neoglacial chronology, northeastern St. Elias Mountains, Canada. Amer. J. Sci. 264:577-599.
84. Denton, G.H. and M. Stuvier. 1967. Late Pleistocene glacial stratigraphy and chronology, northeastern St. Elias Mountains. Geol. Soc. Amer. Bull. 78:485-510.
85. Denton, G.H. and W. Karlen. 1977. Holocene glacial and tree-line variations in the White River Valley and Skolai Pass, Alaska and Yukon Territory. Quaternary Res. 7:63-111.
86. Denton, G.H. and Armstrong, R.L. 1974. Miocene-pliocene glaciations in southern Alaska. p. 235-248. In: V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Res. Proj. Scientific Results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.
87. Detwyler, T.R. 1974. Snowmelt along the environmental transect at Chitistone Pass, Alaska during the summers of 1967, 1968, and 1969. p. 207-210. In: V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Res. Proj. Scientific Results. Vol. 4. Amer. Geogr. Soc., Arctic Insti. N. Amer.
88. Detwyler, T.R. 1974. Vegetation-Snow cover relations in an alpine pass, Alaska. p. 355-360. In: V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Res. Proj. Scientific Results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.
89. Detwyler, T.R. and Redente, A.L. 1974. Map of landforms of the Chitistone Pass and Skolai Pass area, Alaska. p. 385. In: V.C. Bushnell and M.G. Marcus. (eds.). Icefield Ranges Res. Proj. Scientific Results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.

90. Dobey, P.L. and Henning, M.W. 1973. Evaluation of D2 land area, Nabesna quadrangle, Alaska, using aeromagnetic and geochemical data. Alaska Div. Geol. Geophys. Surveys open-file Rep. 21, 10 p.
91. Duggan, E.J. 1933. Ammonia leaching at Kennecott. Trans. Amer. Insti. Mining and metallurgical Eng. 106:547-558.
92. Eakins, G.R. 1976. Investigation of Alaska's uranium potential. Part 1. Special Rep. 12. State of Alaska.
93. Fernald, A.T. 1962. Radiocarbon dates relating to a widespread volcanic ash deposit, eastern Alaska. U.S. Geol. Surv. Prof. Pap. 450:29-30.
94. Fernald, A.T. 1965. Glaciation in the Nabesna River area, upper Tanana River Valley, Alaska. p. C120-123. IN: Geological Survey Research 1965. U.S. Geol. Surv. Prof. Paper 525 C.
95. Ferrians, O.J. 1966. Effects of the earthquake of March 27, 1964 on the Copper River Basin area, Alaska. U.S. Geol. Surv. Prof. Paper. 543-E.
96. Funston, F. 1896. Along Alaska's eastern boundary. Harper's Weekly. 40(2041) :103-104.
97. Furst, J.I. 1968. The reconnaissance petrology of andesites from the Mt. Wrangell caldera, Alaska. M.S. Thesis. University of Alaska, 83 p.
98. Gaw, J.E. and others. 1972. Scenic and wilderness resource study. Special rep. Enviromental Studies Prog. Univ. of CA. Santa Cruz.
99. Gillespie, C.D. 1970. Geology of the central Bond Creek area, Nabesna, Alaska: Master's Thesis. Oregon State Univ. Corvallis, Ore.
100. Gillette, N. 1975. Ordeal in the north. Ski Magazine. Dec.
101. Gove, W.R. 1980. St. Elias from the sea. Amer. Alpine J. 22(2):481-486.
102. Gramann, M. 1976. Big business in Alaska: The Kennecott Mines 1898-1938. Natl. Park Service Rep. Anchorage, AK.
103. Grew, E. and M. Mellor. 1966. High snowfields of the St. Elias Mountains. C.R.R.E.L. Tech. Rep. 177.
104. Griffiths, R. 1979. Mt. Vancouver South-east ridge. Can. Alpine J. 62:35.
105. Griscom, A. 1975. Aeromagnetic map and interpretation of the Nabesna quadrangle, Alaska. U.S. Geol. Surv. Misc. Field Studies Map MF-655H, 2 sheets, scale 1:250,000.
106. Guedon, M.F. 1971. People of Tetlin, why are you singing? A study of the social life of the upper Tanana Indians. Ph.D. Dissertation Bryn Mawr College.
107. Hansen, H.A., P.E. Shepard, J. King, and W. Troyer. 1971. The trumpeter swan in Alaska. Wildl. Monogr. 26. 83 p.

108. Hayes, C.W. 1892. An expedition through the Yukon District. Nat. Geogr. Mag. 4:117-159.
109. Hegg, K.M. 1975. Timber resource statistics for the Copper River inventory unit, Alaska, 1968. USDA For. Serv. Resour. Bull. PNW-62, 55 p.
110. Heimer, W. and A. Smith. 1975. Ram horn growth and population quality: Their significance to Dall sheep management in Alaska. Wildlife Tech. Bull. 5. Alaska Dept. of Fish & Game.
111. Heiner, L.E., Wolff, E.N., and Grybeck. 1971. Copper mineral occurrences in the Wrangell Mountain-Prince William Sound area, Alaska. Mineral Industry Research Laboratory Report #27. Univ. of Alaska, College, Alaska.
112. Hemming, J.E. 1971. The distribution movement patterns of caribou in Alaska. Ak. Dept. of Fish & Game. Wildl. Tech. Bull. 1. 60 p.
113. Henning, M.W. and P. Dobey. 1973. Geologic and mineral evaluation of the Chitina and Bremner River drainage basins. AK. Div. Geol. & Geophys. Survey open-file Rep. AOF - 25. 20 p.
114. Herreid, G. 1970. Geology of the Spirit Mountain nickel-copper prospect and surrounding area. AK. Div. Mines and Minerals. Geol. Rep. 40, 19 p.
115. Hulten, E. 1968. Flora of Alaska and neighboring territories, a manual of the vascular plants. Stanford Univ. Press. Stanford, CA. 1008 p.
116. Hunter, C. 1970. Alaskan wilderness: going, going, -- gone? Natl Parks and Conserv. Mag. 44(278):11-15.
117. Imlay R. 1960. Early Cretaceous (Albian) ammonities from the Chitina Valley and Talkeetna Mountains, Alaska. U.S. Geol. Surv. Prof. Paper 354-D.
118. Institute of Social, Economic, and Government Research. 1976. Copper River-Wrangell Mountains region socio-economic profile. Draft Report, U.S. Forest Service Copper River Study. I.S.E.G.R. Univ. of Alaska. Fairbanks, AK.
119. Jacobs, E. 1910. Chitina Valley copper deposits. Mines and Minerals. December: 315-318.
120. Janson, L. 1975. The copper spike. AK. Northwest Publ. Co. Anchorage, AK.
121. Jeffery, D. 1975. Preserving America's last great wilderness. Natl. Geogra. 147(6): 768-791.
122. Johansen, W. 1975. The Copper River and Northwestern Railroad. Historical Eng. 7(2): 19-31.

123. Johnson, F. 1946. An archaeology survey along the Alaska Highway. Amer. Antiquity. 11:183-186.
124. Johnson, S.H. 1977. Wrangell Mountain High: The story of Kennicott, Alaska, Alaska Fest Magazine. July: 10-13.
125. Jones, D.L., and E.M. MacKevett. 1969. Summary of Cretaceous stratigraphy in part of the McCarthy quadrangle, Alaska. U.S. Geol. Surv. Bull. 1274-K, 19 p.
126. Johnson, L. 1971. Moose, caribou 7 bison reports, Unit 11. IN: Annual report and survey--inventory activities. Alaska Dept. of Fish & Game. Fed. Aid in Wildlife Restoration Proj. w-17-3. Jobs 1, 2, & 13.
127. Jones, D.L. 1964. Cretaceous stratigraphy of the McCarthy A-4 quadrangle southern Alaska. U.S. Geol. Surv. Bull. 1180-A, 18 p.
128. Kennecott Copper Corporation. 1961. All about Kennecott: A story of the Kennecott Copper Corporation. Kennecott Copper Corp. New York.
129. Kingston J. and D.J. Miller. 1945. Nickel-copper prospect near Spirit Mountain, Copper River region, Alaska. U.S. Geol. Surv. Bull. 943-C, p. 49-57.
130. Kinney J.M. 1971. Copper and the settlement of Southcentral Alaska. J. of the West. 10:307-318.
131. Kolberg, D.W. 1974. Baric map-patterns and mountain weather, St. Elias mountains, Yukon and Alaska. p. 133-142. IN: V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Res. Proj. scientific results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.
132. Kolberg, D.W., and A.J. Brazel. 1969. Climatological observations in the St. Elias Mountains, Yukon and Alaska, May-August, 1968. Arctic Inst. North Amer. Tech. Rep. No. 3. 166 p.
133. Krause, A. 1956. The Tlingit Indians: Results of a trip to the northwest coast of America and the Bering Straits. Univ. Wash. Press. Seattle. 310 p.
134. Krebs, C.J. and I. Wingate. 1976. Small mammal communities of the Kluane Region, Yukon Territory. Can. Field-Naturalist 90: 379-389.
135. Laing, H.M., P.A. Taverner, and R.M. Anderson. 1929. Birds and mammals of the Mt. Logan expedition. Bull. Nat. Mus. of Canada. 56:69-107.
136. Lawrence, D.B. 1958. Glaciers and vegetation in southeastern Alaska. Amer. Sci. 46:89-122.
137. Linn, G.W. 1973. Geology of Orange Hill, Alaska. M.S. Thesis. Univ. California, Berkeley, Calif.
138. Lerbekmo, J.F., and F.A. Campbell. 1969. Distribution, composition, and source of the White River Ash, Yukon Territory. Can. J. Earth Sci. 6:109-116.



139. Lindgren, W. 1928. The Kennecott Mine, Alaska. p. 466-469. IN: Mineral deposits. New York. McGraw Hill Co.
140. Logsdon, C., Thomas, W., Druse, J., and S. Helgath. 1976. Copper River Wrangells: Socioeconomic overview. Univ. of Alaska. Social and Econ. Res. Insti. and Agri. Expt. Sta. Rep. Fairbanks, AK.
141. Maloney, R.P. and R.G. Bottge. 1973. Estimated costs to produce copper at Kennicott, Alaska. U.S. Bureau of Mines Circ. IC 8602.
142. Marcus, M.G. 1965. Summer temperature relationships along a transect in the St. Elias Mountains, Alaska and Yukon Territory. Man and the Earth Ser. Earth Sci. No. 3:15-30. Univ. Colorado Press, Boulder.
143. Marcus, M.G. 1965. Icefield ranges climatology program, St. Elias Mountains, 1964 - Part I: Data presentation, Res. Paper. No. 31-A Arctic Inst. North Amer.
144. Marcus, M.G. 1971. The high mountain environment project, St. Elias Mountains, Yukon and Alaska, 1967-1971. Arctic Insti. of N. Amer. Res. Pap. 61.
145. Marcus, M.G. 1974. A note on snow accumulation and climatic trends in the icefield ranges, 1969-1970. p. 210-224. IN: V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Res. Proj. scientific results. Vol 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.
146. Marcus, M.G. 1974. The high mountain environment project: Chitstone Pass Region, Alaska. p. 1-11. IN: V.C. Bushnell and M.G. Marcus. eds. Icefield Ranges Res. Proj. scientific results. Vol. 4. Amer. Geogr. Soc., Arctic Insti. N. Amer.
147. Marcus, M.G. 1974. Investigations in alpine climatology: The St. Elias Mountains, 1963-1971. p. 13-26. IN: V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Res. Proj. scientific results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.
148. Marcus, M.G., Ford, J., and J. Willingham. 1968. Climatological observations at Chitstone Pass, June-August 1967. Tech. Rep. No. 1, High Mountain Environ. Proj., Arctic Inst. North Amer.
149. Marcus, M.G. and J.C. LaBelle. 1974. Summer climate observations at the 5360-meter level, Mt. Logan, 1968-1969. p. 107-116. IN: V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Res. Proj. scientific results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.
150. Marcus, M.G. and R.H. Ragle. 1970. Snow accumulation in the Icefield Ranges, St. Elias Mountains, Yukon. Arctic and Alpine Res. 2: 277-292.
151. MacKevett, E.M. 1965. Factors of probable significance in the genesis of copper deposits in the Kennecott district, Alaska. Econ. Geol. 60: 1564-1565.

152. MacKevett, E.M. 1965. Preliminary geologic map of the McCarthy C-6 quadrangle, Alaska. U.S. Geol. Surv. Misc. Geol. Inv. Map I-444, scale 1:63,360.
153. MacKevett, E.M. 1970. Geology of the McCarthy B-4 quadrangle, Alaska. U.S. Geol. Surv. Bull. 1333, 31 p.
154. MacKevett, E.M. 1971. Stratigraphy and general geology of the McCarthy C-5 quadrangle, Alaska. Geol. Surv. Bull. 1323, 35 p.
155. MacKevett, E.M. 1971. Stratigraphy and general geology of the McCarthy C-5 quadrangle, Alaska. Bull. U.S. Geol. Surv. Bull. 1323.
156. MacKevett, E.M. and A.S. Radtke. 1966. Hydrothermal alteration near the Kennecott copper mines, Wrangell Mountains area, Alaska a preliminary report. U.S. Geol. Surv. Prof. Paper 550-B, p. B165-B168.
157. MacKevett, E.M., and J.C. Smith. 1968. Distribution of gold, copper and some other metals in the McCarthy B-4 and B-5 quadrangles, Alaska. U.S. Geol. Surv. Circ. 604, 25 p.
158. MacKevett, E.M. and E. Cobb. 1972. Metallic mineral resources map of the McCarthy quadrangle, Alaska. U.S. Geol. Surv. Misc. Field Studies Map. MF-395.
159. MacKevett, E.M. and G. Plafker. 1974. The border ranges fault in south-central Alaska. J. Res. U.S. Geol. Surv. 2:323-329.
160. MacKevett, E.M., Albert, N., Barnes, D., Case, J., Robinson, K. and D. Singer. 1977. The Alaskan mineral resource assessment program: Background information to accompany folio of geologic and mineral resource maps of the McCarthy quadrangle, Alaska. U.S. Geol. Surv. Circ. 739.
161. Marsh, S.P. 1975. Geochemical and generalized geologic map showing distribution and abundance of copper in the Nabesna quadrangle, Alaska. U.S. Geol. Surv. Misc. Field Studies Map MF-655B, 1 sheet, scale 1:250,000.
162. Marsh, S.P. 1975. Geochemical and generalized geologic map showing distribution and abundance of lead in the Nabesna quadrangle, Alaska. U.S. Geol. Surv. Misc. Field Studies Map MF-655C, 1 sheet, scale 1:250,000.
163. Marsh, S.P. 1975. Geochemical and generalized geologic map showing distribution and abundance of gold in the Nabesna quadrangle, Alaska. U.S. Geol. Surv. Misc. Field Studies Map MF-655D, 1 sheet, scale 1:250,000.
164. Marsh, S.P. 1975. Geochemical and generalized geologic map showing distribution and abundance of chromium in the Nabesna quadrangle, Alaska. U.S. Geol. Surv. Misc. Field Studies Map MF-655E, 1 sheet, scale 1:250,000.

165. Marsh, S.P. 1975. Geochemical and generalized geologic map showing distribution and abundance of cobalt in the Nabesna quadrangle, Alaska. U.S. Geol. Surv. Misc. Field Studies Map MF-655, 1 sheet, scale 1:250,000.
166. Marsh, S.P. 1975. Perspective diagrams showing geochemical abundance of silver, lanthanum, molybdenum, nickel, vanadium, and zinc in the Nabesna quadrangle, Alaska. U.S. Geol. Surv. Misc. Field Studies Map MF-655G, 1 sheet, scale 1:250,000.
167. Matson, N.A. 1965. Metallic mineral resources map of the Gulkana quadrangle. U.S. Geol. Surv. open-file Rep. 357.
168. Matson, N.A. 1965. Metallic mineral resources map of the Valdez quadrangle. U.S. Geol. Survey open-file Rep. 359.
169. Matson, N.A., and D.H. Richter. 1971. Geochemical data from the Nabesna A-1 quadrangle, Alaska. U.S. Geol. Survey open-file Rep. 10 p.
170. Matson, N.S. and D.H. Richter. 1971. Geochemical data from the Nabesna C-4 quadrangle, Alaska. U.S. Geol. Survey open-file Rep. 6 p.
171. Matson, N.A. and D.H. Richter. 1971. Geochemical data from the Nabesna C-5 quadrangle, Alaska. U.S. Geol. Survey open-file Rep. 10 p.
172. Matson, N.A. and D.H. Richter. 1971. Geochemical data from the Nabesna D-5 quadrangle, Alaska. U.S. Geol. Survey open-file Rep. 8 p.
173. Matson, N.A. and D.H. Richter. 1972. Additional geochemical data from the Nabesna C-4 and D-5 quadrangles, Alaska. U.S. Geol. Survey open-file Rep. 5 p.
174. Matson, N.A. and D.H. Richter. 1972. Geochemical data from the Nabesna B-3 quadrangle, Alaska. U.S. Geol. Survey open-file Rep. 41 p.
175. McCracken, E.M. 1963. The Tides are its Timetable--the Yakutat and Southern Railroad. Alaska Sportsman May 1963.
176. McGee, D.L. 1972. Mineral resources of the Chitina River area, McCarthy and Valdez quadrangles, Alaska. State of Alaska. Div. of Geological and Geophysical Surveys.
177. McNeary, S.A. 1977. Preliminary report: Subsistence use in coastal areas of Wrangell St. Elias National Park. Univ. Alaska, Anthropology Dept. CPSU. 34p.
178. Mendenhall, W.C. 1903. The Wrangell Mountains, Alaska. Nat'l Geogr. Mag. 14: 395-407.
179. Mendenhall, W.C. 1905. Geology of the central Copper River region, Alaska. U.S. Geol. Surv. Prof. Paper 41, 133 p.
180. Mendenhall, W.C., and F.C. Schrader. 1903. Copper deposits of the Mount Wrangell region, Alaska. U.S. Geol. Surv. Bull. 213, p. 141-148.

181. Mendenhall, W.C., and F.C. Schrader. 1903. The mineral resources of the Mount Wrangell district, Alaska: U.S. Geol. Surv. Prof. Paper 15, 71 p.
182. Mertie, J.B. 1931. A geologic reconnaissance of the Dennison Fork district, Alaska. U.S. Geol. Surv. Bull. 827, 44 p.
183. Miller, D.J. 1946. Copper deposits of the Nizina district, Alaska. U.S. Geol. Surv. Bull. 947F.
184. Miller, D. 1957. Geology of the Southeastern Part of the Robinson Mountains, Yakataga District, Alaska. U.S. Geol. Surv. Oil & Gas Inv. map OM-187.
185. Miller, D.J., and MacColl, R.S. 1964. Geologic map and sections of the northern part of the McCarthy A-4 quadrangle, Alaska. U.S. Geol. Surv. Misc. Geol. Map I-410, scale 1:63,360.
186. Miller, M. 1964. Morphogenetic classification of Pleistocene glaciations in the Alaska-Canada boundary range. Proc. Amer. Phil. Soc. 108(3).
187. Miller, M. 1964. Inventory of terminal position changes in Alaskan coastal glaciers since the 1950's. Proc. Amer. Phil. Soc. 108(3).
188. Miller, M. 1967. Alaskas might rivers of ice. Natl. Geogr. 131 (2):194-217.
189. Miller, O.K., Laursen, G.A. and B.M. Murray. 1974. Arctic and alpine agarics from Alaska and Canada. p. 365-370. IN: V.C. Bushnell and M.G. Marcus. (eds.). Icefield Ranges Res. Proj. scientific results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.
190. Miller, P. and L. Miller. 1967. Lost heritage of Alaska. World Publ. Co. Cleveland, 280 p.
191. Miller, T.P. and I. Barnes. 1976. Potential geothermal energy development in Alaska: Summary. Circum-Pacific Energ. and Min. Res. Memoir 25:49-153.
192. Miller, T.P. and R.L. Smith. 1976. Ash flows associated with Wrangell Volcano. IN: The U.S. Geological Survey in Alaska: Accomplishments during 1975. Geol. Surv. Circ. 733, p. 52.
193. Moffitt, F.H. 1903. Mineral resources of the Kotsina-Chitina region, Alaska. U.S. Geol. Surv. Bull. 374.
194. Moffitt, F.H. 1910. Mineral resources of the Nabesna-White River district. U.S. Geol. Surv. Bull. 417.
195. Moffitt, F.H. 1911. Geology and mineral resources on the Nizina district. U.S. Geol. Surv. Bull. 448.
196. Moffitt, F.H. 1914. Geology of the Hanagita Bremner region, Alaska. U.S. Geol. Soc. Surv. Bull. 576.

197. Moffit, F.H. 1918. The upper Chitina Valley, Alaska. U.S. Geol. Surv. Bull 675, 82 p.
198. Moffit, F.H. 1932. The Slana district upper Copper River region. U.S. Geol. Surv. Bull. 824, p. 111-124.
199. Moffit, F.H. 1933. The Suslota Pass district, upper Copper River region, Alaska. U.S. Geol. Surv. Bull. 844-C, p. 137-162.
200. Moffit, F.H. 1935. Geology of the Tonsina district, Alaska. U.S. Geol. Surv. Bull. 866.
201. Moffit, F.H. 1936. Upper Copper and Tanana River. U.S. Geol. Surv. Bull 868-C, p. 135-143.
202. Moffit, F.H. 1937. Recent mineral developments in the Copper River region. U.S. Geol. Surv. Bull. 880-B, p. 97-109.
203. Moffit, F.H. 1938. Geology of the Slana-Tok district, Alaska. U.S. Geol. Survey Bull. 904, 54 p.
204. Moffit, F.H. 1938. Geology of the Chitina Valley and adjacent area, Alaska. U.S. Geol. Surv. Bull. 894, 137 p.
205. Moffit, F.H. 1941. Geology of the upper Tetlin river district, Alaska. U.S. Geol. Surv. Bull. 917-B, p. 115-157.
206. Moffit, F.H. 1943. Geology of the Nutzotin Mountains, Alaska. with a section on the igneous rocks. U.S. Geol. Surv. Bull. 933-B, 103-174.
207. Moffit, F.H. 1944. Mining in the northern Copper River region, Alaska. U.S. Geol. Surv. Bull. 943-B, p. 25-47.
208. Moffit, F.H. 1954. Geology of the eastern part of the Alaska Range and adjacent area. U.S. Geol. Surv. Bull. 989-D, p. 63-218.
209. Moffit, F.H. and A. Maddren. 1903. Mineral Resources of the Kotsina-Chitina Region, Alaska. U.S. Geol. Surv. Bull. 374.
210. Moffit, F.H. and A. Knopf, 1909. Mineral resources of the Nabesna-White River district, Alaska. U.S. Geol. Surv. Bull. 379, p. 161-180.
211. Moffit, F.H. and A. Knopf. 1910. Mineral resources of the Nabesna-White River district, Alaska, with a section on the Quaternary. U.S. Geol. Surv. Bull. 417, 64 p.
212. Moffit, F.H. and S.R. Capps. 1911. Geology and Mineral Resources on the Nizina District, Alaska. U.S. Geol. Survey Bull. #448.
213. Molnia, B.F. 1977. Rapid shoreline erosion and retreat at Icy Bay, Alaska. A staging area for offshore petroleum development. Paper Presented at 9th Annual OTC (Offshore Tech. Conf.) Houston, Tex. May 2-5, 1977.
214. Molnia, B.B., and P.E. Carlson. 1975. Surface sediment distribution map, northern Gulf of Alaska. U.S. Geol. Surv. open-file map. 75-505. 1:500,000.



215. Monson, M.A. 1956. Nesting of trumpeter swan in the lower Copper River Basin, Alaska. *Condor*. 56(8):444-445.
216. Moore, M. 1973. St. Elia's east ridge. *Amer. Alpine J.* 18(2):299-302.
217. Muller, J.E. 1958. Tectonics of the Shakwak lineament, southwest Yukon and Eastern Alaska. *Geol. Surv. Amer. Bull.* Dec: 1619-1620.
218. Murphy, E.C. and F.C. Dean. Hunting activity and harvest in the Wrangell St. Elias Region, Alaska. Final Rep. CX-9000-6-0154. National Park Serv. Coop. Park Studies Unit. Univ. Alaska, Fairbanks.
219. Murphy, E.C. and F.C. Dean. Hunting activity and harvest in the Wrangell St. Elias Region, Alaska. Supplement I. Hunting of Dall sheep in relation to the house subcommittee proposal from a Wrangell St. Elias National park/preserve. National Park Service. Coop. Park Studies Unit. Univ. Alaska, Fairbanks.
220. Murray, D. 1968. A Plant collection from the Wrangell Mountains. Alaska. *Arctic* 21:106-110.
221. Murray, D. 1971. Notes on the alpine flora of the St. Elias Mountains. *Arctic* 24:301-304.
222. Murray, B.M. and D.F. Murray. 1969. Notes on mammals in alpine areas of the northern St. Elias Mountains, Yukon Territory and Alaska. *Can. Field Nat.* 83:331-338.
223. Nelson, A.E. 1952. Reconnaissance for radioactive deposits in southcentral Alaska. *U.S. Geol. Surv. Circ.* 184.
224. Nichols, D.R. 1956. Permafrost and groundwater conditions in the Glennallen area, Alaska. *U.S. Geol. Surv. open-file report* 141.
225. Nichols, D.R., and L.A. Yehle. 1961. Analyses of gas and water from two mineral springs in the Copper River Basin, Alaska *U.S. Geol. Surv. Prof. Paper* 424D.
226. Nichols, D. and L.A. Yehle. 1961. Mud Volcanoes in the Copper River Basin, Alaska. IN: *Geology of the Arctic*. U. Toronto Press.
227. O'Leary, R.M., McDanal, S.K., Day, G.W., McDougal, C.M. and K. Robinson. 1976. Spectrographic and chemical analyses of geochemical samples from the McCarthy quadrangle, Alaska. 76-824. 806 p.
228. O'Leary, R.M., Van Trump, G., and others. 1975. Spectrographic and chemical analyses of rock and stream-sediment samples from the Nabesna quadrangle, Alaska: *Natl. Tech. Inf. Service* (U.S. Dept. Commerce) Magnetic Tape No. PB240-488.
229. Osgood, C. 1971. The Han Indians: A compilation of Ethnographic and Historical Data on the Alaska-Yukon Boundary Area. Yale Univ. Publ. in Anthropology. No. 74. Dept. of Anthropology, Yale Univ., New Haven.

230. Patterson, C. 1975. Ski touring through the St. Elias Range. Summit Magazine. Dec. 21(10).
231. Pierce, H.C. 1946. Exploration of Spirit Mountain nickel prospect, Canyon Creek, lower Copper River region, Alaska. U.S. Bur. Mines Rep. Inv. 3913. 8 p.
232. Plafker, G. and D. Miller. 1957. Glacial features and surficial deposits of the Malaspina District, Alaska. U.S. Geol. Surv. open-file Rep. No. 425.
233. Plafker, G., T.R. Burns, and R.A. Page. 1975. Interim report on petroleum resource potential and geologic hazards in the Outer Continental Shelf of the Gulf of Alaska Tertiary Province. U.S. Geol. Surv. open-file Rep. 75-592. 74 p.
234. Post, A. 1969. Distribution of surging glaciers in western North America. J. Glaciology. p. 229-240.
235. Rand, A.L. 1944. The southern half of the Alaska Highway and its mammals. Nat. Mus. of Canada. Bull. 98. Biol. Ser. 27:1-50.
236. Reimnitz, E. 1966. Late Quaternary history and sedimentation of the Copper River delta and vicinity, Alaska. Ph.D. Thesis. San Diego. Univ. San Diego, Calif. 160 p.
237. Richter, D.H. 1964. Geology and mineral deposits of the Ahtell Creek area, Slana district, south-central Alaska. Alaska Div. Mines and Minerals Geol. Rep. 6, 17 p.
238. Richter, D.H. 1965. Geochemical investigation of the Slana district, southcentral Alaska, 1963 and 1964. Alaska Div. Mines and Minerals Geochem. Rep. 2, 14 p.
239. Richter, D.H. 1966. Geology of the Slana district, southcentral Alaska: Alaska Div. Mines and Minerals Geol. Rep. 21, 51 p.
240. Richter, D.H. 1967. Geology of the upper Slana-Mentasta Pass area, southcentral Alaska. Alaska Div. Mines and Minerals Geol. Rep. 30, 25 p.
241. Richter, D.H. 1970. A corundum occurrence in the eastern Alaska Range, Alaska. p. C98-C102. IN: Geological Survey research 1970. U.S. Geol. Surv. Prof. Paper 700-C.
242. Richter, D.H. 1971. Reconnaissance geologic map and section of the Nabesna A-3 quadrangle, Alaska: U.S. Geol. Surv. Misc. Geol. Inv. Map I-655, 1 sheet, scale 1:63,360.
243. Richter, D.H. 1971. Reconnaissance geologic map and section of the Nabesna B-4 quadrangle, Alaska. U.S. Geol. Surv. Misc. Geol. Inv. ap I-656, 1 sheet, scale 1:63,360
244. Richter, D.H. 1973. Reconnaissance geologic map of the Nabesna A-4 quadrangle, Alaska. U.S. Geol. Surv. Misc. Geol. Inv. Map I-789, 1 sheet, scale 1:63,360.
245. Richter, D.H. 1975. Geologic map of the Nabesna quadrangle, Alaska. U.S. Geol. Surv. Misc. Field Studies Map MF-655A, 1 sheet, scale 1:250,000.

246. Richter, D.H., and N.A. Matson. 1968. Distribution of gold and some base metals in the Slana area, eastern Alaska Region, Alaska. U.S. Geol. Surv. Circ. 593, 20 p.
247. Richter, D.H., and N.A. Matson. 1969. Geochemical Data from the Nabesna A-3 quadrangle, Alaska. U.S. Geol. Surv. open-file Rep., unpagued.
248. Richter, D.H. and N.A. Matson. 1969. Geochemical data from the Nabesna B-4 quadrangle, Alaska. U.S. Geol. Surv. open-file Rep., unpagued.
249. Richter, D.H., and N.A. Matson, 1970. Geochemical data from the Nabesna A-2 quadrangle, Alaska. U.S. Geol. Surv. open-file Rep., unpagued.
250. Richter, D.H. and N.A. Matson, 1970. Geochemical data from the Nabesna A-4 quadrangle, Alaska. U.S. Geol. Surv. open-file Rep., unpagued.
251. Richter, D.H., and N.A. Matson. 1971. Quaternary faulting in the eastern Alaska Range, Alaska. Geol. Soc. America Bull., v. 82, p. 1529-1540.
252. Richter, D.H., and N.A. Matson. 1972. Metallic mineral resources map of the Nabesna quadrangle, Alaska: U.S. Geol. Surv. Misc. Field Studies Map MF-422, 1 sheet, scale 1:250,000.
253. Richter, D.H., Schmoll, H.R., and N.A. Matson. 1973. Reconnaissance geologic map of the Nabesna A-1 quadrangle, Alaska. U.S. Geol. Inv. Map I-807, 1 sheet, scale 1:63,360.
254. Richter, D.H., and H.R. Schmoll. 1973. Geologic map of the Nabesna C-5 quadrangle, Alaska. U.S. Geol. Surv. Geol. Quad. Map GQ-1062, 1 sheet, scale 1:63,360.
255. Richter, D.H., and D.L. Jones. 1973. Reconnaissance geologic map and cross-section of the Nabesna A-2 quadrangle, Alaska. U.S. Geol. Surv. Misc. Geol. Inv. Map I-749, 1 sheet, scale 1:63:360.
256. Richter, D.H., Lamarre, R.A., and D.E. Donaldson. 1973. Soda Creek springs -- metamorphic waters in the eastern Alaska Range. U.S. Geol. Surv. J. Res. :523-528.
257. Richter, D.H., and D.L. Jones. 1973. Structure and stratigraphy of eastern Alaska Range, Alaska. p. 408-420. IN: Arctic Geol. Am. Assoc. Petroleum Geologists, Mem 19.
258. Richter, D.H., Lanphere, M.A., and N.A. Matson. 1975. Granitic plutonism and metamorphism, eastern Alaska Range, Alaska. Geol. Soc. America Bull.
259. Richter, D.H. et al. 1975. The Alaskan mineral resource assessment program: Background information to accompany folio of geologic and mineral resource maps of the Nabesna quadrangle, Alaska. U.S. Geol. surv. Circ. 718.

260. Richter, D.H., Singer, D.A., and D.P. Cos. 1975. Mineral resources map of the Nabesna quadrangle, Alaska. U.S. Geol. Surv. Misc. Field Studies Map MF-655 K, 1 sheet, scale 1:250,000.
261. Riehle, J. and W. Lyle. 1976. Preliminary report on geologic factors bearing on development at Icy Bay. Div. of Geol. Geophys. Surv. State of AK.
262. Rogers, G.W. 1960. Alaska in transition: The southeast region. John Hopkins Press. Balt. 384 p.
263. Rohn, O. 1900. A reconnaissance of the Chitina River and Skolai Mountains, Alaska U.S. Geol. Surv. 21st Ann Rep. Part 2: 393-440.
264. Rowett, C.L. 1971. Reconnaissance biostratigraphy of the Lower Permian in the Slana area, eastern Alaska Range, Alaska. Pacific Geol. 3:31-44.
265. Russell, I.C. 1891. An expedition to Mount St. Elias. Natl. Geogr. 3:53-191.
266. Russell, I.C. 1893. Second expedition to Mount St. Elias. U.S. Geol. Surv. 13th Ann. Rep. Part 2 p. 1-91.
267. Rust, B.R. 1972. Structure and process in a braided river. Sedimentology. 18:221-245.
268. Sage, B.L. 1975. Recent observations in the Wrangell Mountains, Alaska. Condor. 77:206-7.
269. Schrader, F.C. and A.C. Spencer. 1901. The geology and mineral resources of a portion of the Copper River district, Alaska. U.S. Geol. Surv. Spec. Pub. 94 p.
270. Scott, R. 1968. Vascular plants of the Chitistone Pass Area, Alaska. Arctic Inst. North Amer. Tech. Rep. 2. 18 p.
271. Scott, R.W. 1971. Ecology and phytogeography of alpine vegetation in southeastern Wrangell Mountains, Alaska. Ph.D. Dissertation. Univ. Michigan. Ann Arbor, Michigan. 314 p.
272. Scott, R.W. 1974. Alpine plant communities of the southeastern Wrangell Mountains, Alaska. p. 283-306. IN: V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Res. Proj. scientific results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.
273. Scott, R.W. 1974. The vegetation of Chitistone, Skolai and Frederika Valleys, Alaska. p. 331-338. IN: V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Res. Proj. scientific results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.
274. Scott, R.W. 1974. The effect of snow duration on alpine plant community composition and distribution. p. 307-318. IN: V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Res. Proj. scientific results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.

275. Scott, R.W. 1974. Successional patterns on moraines and outwash of the Frederika Glacier, Alaska. p. 319-330. IN: V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Res. Proj. Scientific results. Vol. 4 Amer. Geogr. Soc., Arctic Inst. N. Amer.
276. Scott, R. 1974. Soils and patterned ground in the Chitistone Pass Region of Alaska. p. 279-282. V.C. Bushnell and M.G. Marcus (eds.). Icefield Ranges Res. Proj. scientific results. Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.
277. Scott, R.W. 1974. Floristic and ecological phytogeography of the southeastern Wrangell Mountains, Alaska. p. 339-354. IN: V.C. Bushnell and M.G. Marcus (eds.). Vol. 4. Amer. Geogr. Soc., Arctic Inst. N. Amer.
278. Seitz, J.F. 1963. Copper prospect in the upper Chitina Valley, Alaska. U.S. Geol. Surv. Bull. 1155.
279. Selkregg, L. et al. 1974. Alaska region profiles: Southcentral region. Arctic Environmental Information and Data Center, Anchorage, AK.
280. Shaine, B.A. et al. 1973. The Wrangell Mountains: Toward and environmental plan. Report of the Wrangell Mountain Project. Environmental Studies Pr. Univ. Calif. Santa Cruz.
281. Sharp, R. 1958. The Latest Major Advance of the Malaspina Glacier, Geog. Rev. Jan.
282. Smith, J.G. and E.M. MacKevett. 1970. The Skolai Group in the McCarthy B-4, C-4, and C-5 quadrangles, Wrangell Mountains Alaska. U.S. Geol. Surv. Bull. 1274-Q, p. Q1-Q26.
283. Stearns, R.A. 1975. Alaska's Kennecott Copper and the Kennecott Copper Corporation. The Alaska Journal 5:130-139.
284. Stuiver, M., R. Armstrong, and G.H. Denton. 1969. Quaternary glacial chronology, White River valley, northern Wrangell and St. Elias Mountains, Alaska. Geol. Soc. Amer. Ab. with Prog. pt. 7:218.
285. Tarr, R.S. and L. Martin. 1912. The earthquake of Yakutat Bay, Alaska. U.S. Geol. Surv. Prof. Paper 69. 135 p.
286. Taylor-Barge, B. 1969. The summer climate of the St. Elias Mountains region. Arctic Inst. North Amer. Res. Pap. No. 53. 265 p.
287. Thomas, B.I., and R.V. Berryhill. 1962. Reconnaissance studies of Alaskan beach sands, eastern Gulf of Alaska. U.S. Bur. Mines Rep. Inv. 5986. 40 p.
288. Thompson, S. 1964. The Red Salmon of the Copper River, Alaska. Manuscript Rep't. #64-12, Bureau of Comm. Fish. Auke Bay Biol. Lab. Juneau, Alaska.
289. Thorne, R.L. 1946. Exploration of argentiferous lead copper deposits of the Slana district, Alaska. U.S. Bur. Mines Rept. Inv. 3940. 9 p.
290. U.S. Department of the Interior. 1974. Final environmental impact statement for the proposed Wrangell-St. Elias National Park. Nat. Park Serv. Alaska Planning Group. 764 p.



- ✓ 291. U.S. Department of the Interior. 1974. Final environmental impact statement from the proposed Wrangell St. Elias National Forest. National Park Serv. National Forest Serv. Alaska Planning Group.
292. U.S. Department of Interior. National Park Service. 1968. Copper River-Chitina Valley Scenic Road System. Area investigation Report. 35 p.
- ✓ 293. U.S. Forest Service. 1968. Preliminary Timberland Statistics for the Copper River, Alaska. U.S. Forest Serv. Inst. of Northern Forestry, Juneau, Alaska.
294. Van Alstine, R.E., and R.F. Black. 1944. Mineral deposits at Orange Hill, Alaska: U.S. Geol. Surv. open-file rep., 28 p.
295. Van Stone, J. 1955. Exploring the Copper River country. Pacific Northwest Quat. 46(4):115-123.
- ✓ 296. Watling, R. and O.K. Miller. 1971. Notes on eight species of *Coprinus* of the Yukon Territory and adjacent Alaska. Can. J. Bot. 49:1687-1690.
297. Watson, G.W., and R.F. Scott. 1956. Aerial censusing of the Nelchina caribou herd. Trans. N.Am. Wildl. Conf. 21:499-509.
298. Wayland, R.G. 1943. Gold deposits near Nabesna. U.S. Geol. Surv. Bull. 933-B, p. 175-199.
299. Wharton, G.B. 1966. Snow stratigraphy studies in the caldera at the summit of Mt. Wrangell, Alaska. M.S. Thesis, University of Alaska. Fairbanks, AK.
300. Williams, F.T. 1969, 1970. Inventory and Cataloging of Sport Fish and Sport Fish Waters of the Copper River, Prince William Sound, and Upper Susitna River Drainages. Ann. Rep. Alaska Dept. of Fish & Game, Sport Fish Division.
301. Winkler, G.R., and E.M. MacKevett, 1970. Analyses of stream-sediment samples from the McCarthy C-8 quadrangle, Southern Wrangell Mountains, Alaska. U.S. Geol. Surv. open-file rep. 44 p.
302. Winkler, G.R., MacKevett E.M., and J.C. Smith. 1971. Geochemical reconnaissance of the McCarthy B-6 quadrangle, Alaska. U.S. Geol. Surv. open-file rep. 8 p.
303. Wood, W.A. 1963. The Icefield Ranges Research Project. Geogr. Rev. 53:163-184.
304. Wood, W.A. 1967. A history of mountaineering in the Saint Elias Mountains. Yukon Alpine Centennial Expedition, Scarborough, Ontario. 45 p.
305. Woodbridge, W.M. 1973. The wild Wrangells, jewels of Alaska. The Environ. J. 4:4-10.

306. Wright, H.E. 1953. Glacial history of the Mentasta Mountains, southeastern Alaska Range (abs.). Geol. Soc. Amer. Bull. 64(12):1495.
307. Wright, R.G. 1979. The use of spatial simulation models in evaluating land-use and resource management strategies in the proposed Alaskan parks. Proc. First Conf. Sci. Res. National Parks. N.P.S. Proc. Ser. 5. p. 1077-1081.
308. Wright, R.G. 1980. The Wrangell St. Elias Region. Alaska Geographic In press.
309. Wright, R.G., and B. Jacobs. 1980. A guide to hiking trails in the Wrangell St. Elias National Monument. National Park Serv. Coop. Park Studies Unit. University of Idaho. Rep. 2.
310. Yehle, L.A. 1975. Preliminary report on the reconnaissance engineering geology of the Yakutat area, Alaska, with emphasis on evaluation of earthquake and other geologic hazards. U.S. Geol. Surv. open-file rep. 75-529. 136 p.
311. Alaska Department of Fish and Game. 1973. Alaska wildlife and habitat. State of Alaska. Dept. of Fish and Game. 144 p.
312. Alaska Department of Fish and Game. 1975. Yakutat subsistence, sport and commercial fishing statistics. Alaska Dept. Fish and Game. Juneau Office.
313. Mallot, B.L. 1975. Report on the probable impacts on native people resulting from OCS Federal Oil and Gas leases using Yakutat as a case study. Bureau of Indian Affairs. Juneau.
314. Reckord, H. 1976. Copper, gold, furs, and oil. A socio-economic history of the Ahtna. Paper presented first conference on scientific research in the national parks. New Orleans, La. Nov. 9-13.
315. Weber, M.G. and C. Wentworth. American Indians in rural areas: Social changes to the Alaska Tlingit Indians subsistence lifestyle as a result of outer continental shelf leasing in the northern Gulf of Alaska. Bureau of Land Management and U.S. Fish and Wildlife Service Rep. Alaska Office. 32 p.
316. Tuten, M.A. and J.M. Eckhardt. 1977. A bibliography on Alaskan subsistence. Commission Study 28. Federal State Land Use Planning Commission for Alaska.



