

STUDIES RELATED TO WILDERNESS

The Wilderness Act (Public Law 88-577, September 3, 1964) and related acts require the U.S. Geological Survey and the U.S. Bureau of Mines to survey certain areas on Federal lands to determine their mineral resource potential. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a geochemical survey of the Western Chichagof-Iakobi Island Study Area in the Tongass National Forest, Alaska. About 65 percent of the study area was established as a wilderness on December 2, 1980, under the Alaska National Interest Lands Conservation Act (P.L. 96-487).

In the course of the U.S. Geological Survey investigations of the Western Chichagof-Yakobi Islands Wilderness Study Area, 2,230 bedrock geochemical samples were collected and analyzed for 31 elements by a semiquantitative emission spectrographic method (Grimes and Narranzino, 1968) and for 4 elements by atomic absorption spectrophotometry (Ward and others, 1969). This map shows sample collection sites and the station number associated with each site. Complete analytical data and the location coordinates for each station are available in Johnson, 1982.

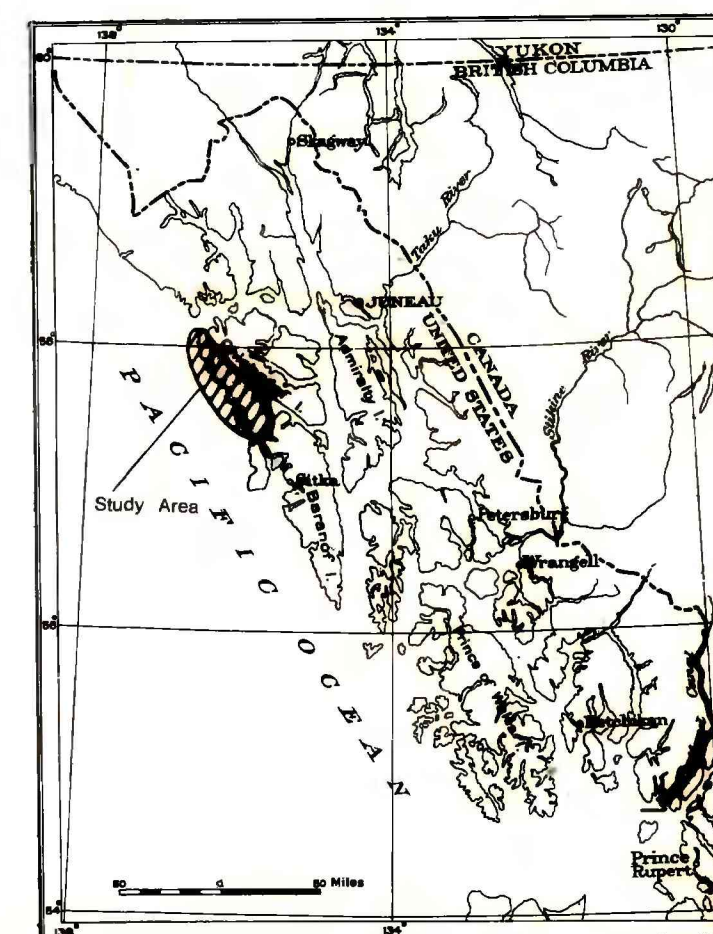
REFERENCES CITED

Grimes, D. J., and Marranzino, A. P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, 6 p.

Johnson, B. R., 1982, Magnetic tape containing trace element data for bedrock geochemical samples from the West Chichagof-Yakobi Islands Wilderness Study Area, southeastern Alaska: National Technical Information Service Report No. USGS-GB-82-005.

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Ward, F. N., Nakagawa, H. M., Harms, T. F., and Van
Sickle, G. H., 1969, Atomic absorption methods of
analysis useful in geochemical exploration: U.S.
Geological Survey Bulletin 1289, 45 p.



Index Map Showing Location of Study Area

This map is preliminary and has not been reviewed for conformity with U. S. Geological Survey editorial standards, but the stratigraphic nomenclature has been approved previously.

MAP SHOWING BEDROCK GEOCHEMICAL STATION LOCATIONS, WESTERN CHICHAGOF AND YAKOBI ISLANDS WILDERNESS STUDY AREA, SOUTHEASTERN ALASKA

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