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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATUS OF GEOLOGIC MAPPING IN ALASKA – A DIGITAL BIBLIOGRAPHY

U.S. GEOLOGICAL SURVEY OPEN-FILE REPORT 94-675-C

By

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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards. Any use of trade, products or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

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Status of Geologic Mapping in Alaska -- A Digital Bibliography

By John P. Galloway and Jim Laney

A. - INTRODUCTION

Geologic maps provide useful information needed to address societal issues, such as potential geologic hazards related to urbanization, ground water contamination, and economic resources. Given the demand for geologic information and an increasing interest, both at the national and international levels, in geological processes in arctic environments, the development of a comprehensive bibliography of geologic mapping for the State of Alaska is essential. The last comprehensive bibliography/index map on geologic mapping in Alaska was published by the United States Geological Survey (USGS) in 1983 (USGS Open-File Reports 83-577 and 83-578). The bibliography was published in paper form only. A specialized bibliography/index map for surficial geologic maps in Alaska was recently released by the Alaska Division of Geological and Geophysical Surveys (ADGGS Public Data-File 91-25). This bibliography was published in paper form only.

This bibliography expands upon USGS Open-File Reports 83-577 and 83-578 by providing a listing of Alaskan geologic maps through November, 1994. The USGS is required under the National Geologic Mapping Act of 1992 to maintain a national digital geologic-mapping database. Publication of this bibliography is a start toward developing a comprehensive digital bibliography of geologic mapping in Alaska.

References for the bibliography were copied from a variety of sources (see section B). A quick survey of the literature shows there are currently over 600 published geologic maps of various scales for the State of Alaska. Although completeness was strived for, this bibliography has not benefited from a thorough search of all doctoral and master's theses and maps published by private industry. All references are in standard U.S. Geological Survey bibliographic format.

All references in the bibliography (various scales) are indexed by 1:250,000-scale quadrangle. Mapping covering several 1:250,000-scale quadrangles is listed by geographic region in section C. For an overview

of 1:250,000-scale or 1:63,360-scale geologic mapping in Alaska see figures 1 to 4 and section E "Current geologic maps of Alaska by quadrangle." In compiling 1:63,360-scale mapping for figures 3 and 4 and section E-2, only those maps that have 1:63,360-scale quadrangle names in their titles have been included. Similarly, only those surficial maps with the words, Quaternary, surficial, or engineering in their titles have been included in figures 2 and 4, and section E-1. Status of geologic mapping for the three largest cities in Alaska, Anchorage, Fairbanks, and Juneau are listed in sections F to H. As an aid to the construction, housing industries, and public-planning agencies, derivative maps have been included in the bibliography. As an additional resource, published bibliographies have been listed where appropriate. Supplemental information is given in brackets. If a map has been superceded, the older version is also listed in brackets. For information regarding unpublished mapping, please contact the respective author at: U.S. Geological Survey, Branch of Alaskan Geology - Mail Stop 904, 345 Middlefield Rd., Menlo Park, CA 94025 or U.S. Geological Survey, Branch of Alaskan Geology, 4200 University Dr., Anchorage, AK 99508.

Emphasis was put on developing a bibliography with multiplatform compatibility for MS-DOS or Macintosh operating systems. This open-file report is being released in three versions: A -- paper copy, B - - Microsoft, Word for Windows% ver 2.0 for MS-DOS,, and C --Microsoft, Word% ver. 5.0 for Macintosh,. Versions B and C contain text only and do not include figures 1 through 4. The bibliography is also available from the author in ASCII character (comma delimited), DIF, or RFT file format on IBM-compatible diskettes.

Any errors or omissions in this open-file are those of the authors. The authors would appreciate any comments on the bibliography, especially additions or errors in the citations.

B. - SOURCES OF BIBLIOGRAPHIC DATA

This bibliography is preliminary. References have not been checked for accuracy (except in cases of obvious errors).

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C. - GEOLOGIC MAPS OF ALASKA BY REGION (various scales)

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NORTHERN

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D. - GEOLOGIC MAPS OF ALASKA BY 1:250,000-SCALE QUADRANGLES (all scales)

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AMBLER RIVER

Mayfield, C.F. and Tailleux, I.L., 1978

Quaternary-Surficial-Engineering

Hamilton, T.D., 1984

AMUKTA

ANCHORAGE

Winkler, G.R., 1990

ARCTIC

Brosge, W.P. and Reiser, H.N., 1965

ATKA

Hein, J.R., McLean, Hugh and Vallier, T.L., 1981

ATLIN

Brew, D.A. and Ford, A.B., 1985

ATTU

BAIRD INLET

BAIRD MOUNTAINS

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CAPE MENDENHALL

CHANDALAR

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Hamilton, 1978

CHANDLER LAKE

Kelley, J.S., 1990

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CHARLEY RIVER

Dover J.H. and Miyaoka, R.T., 1988

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Hoare, J.M. and Coonrad, W.L., 1978

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FORT YUKON**GARELOI ISLAND**

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GOODNEWS

Hoare, J.M. and Coonrad, W.L., 1978

GULKANA

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HAGEMEISTER ISLAND

Hoare, J.M. and Coonrad, W.L., 1978

HARRISON BAY

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HUGHES

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IKPIKPUK RIVER

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ILIAMNA

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KAGUYAK

Moore, G.W., 1967

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KUSKOKWIM BAY

Hoare, J.M. and Coonrad, W.L., 1978

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McGRATH

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MEDFRA

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AMBLER RIVER

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ARCTIC

ATKA

ATLIN

ATTU

BAIRD INLET

BAIRD MOUNTAINS

BARROW

BARTER ISLAND

BEAVER

BEECHEY POINT

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BLYING SOUND

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CANDLE

CAPE MENDENHALL

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CHIGNIK

CHRISTIAN

CIRCLE

COLD BAY

COLEEN

CORDOVA

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HUGHES

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ILIAMNA

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KENAI

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NULATO

NUNIVAK ISLAND

NUSHAGAK BAY

OPHIR

PETERSBURG

PHILIP SMITH MOUNTAINS

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RUBY

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SAINT LAWRENCE

SAINT MATTHEW

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SAMALGA ISLAND

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SHISHMAREF

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SKAGWAY

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TALKEETNA MOUNTAIN

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TESHEKPUK

TRINITY ISLANDS

TYONEK

UGASHIK

UMIAT

UMNAK

UNALAKLEET

UNALASKA

UNIMAK

UTUKOK RIVER

VALDEZ

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WISEMAN

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G. - GEOLOGIC MAPS OF THE FAIRBANKS AREA, PRE-1980 -- 1:24,000-SCALE

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