

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-A

By

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

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[Yakutat B-5, C-5]

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E. - CURRENT GEOLOGIC MAPPING OF ALASKA BY QUADRANGLE

E1. - 1:250,000-SCALE (* partial mapping)

ADAK

Fraser, G.D. and Barnett, H.F., 1959

AFOGNAK

Riehle, J.R., Detterman, R.L., Yount, M.E., and Miller, J.W., 1993*

Wilson, F.H. [1994], unpub., USGS, Anchorage, AK 99508

~~Quaternary--Surficial--Engineering~~

Riehle, J.R. and Detterman, R.L., 1993*

AMBLER RIVER

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

~~Quaternary--Surficial--Engineering~~

Hamilton, T.D., 1984

AMUKTA

ANCHORAGE

Winkler, G.R., 1990

ARCTIC

Brosigé, 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

Karl, S.M., Dumoulin, J.A., Ellersieck, Inyo, Harris, A.G., and Schmidt, J.M., 1989

BARROW

~~Quaternary--Surficial--Engineering~~

Williams, J.R. and Carter, L.D., 1984

BARTER ISLAND

Bader, J.W. and Bird, K.J., 1986

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Carter, L.D., Ferrians, O.J., Jr. and Galloway, J.P., 1986

BEAVER

Brosigé, W.P., Reiser, H.N. and Yeend, Warren, 1973

BEECHEY POINT

BENDELEBEN

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Kaufman, D.S., 1986

BERING GLACIER

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BETHEL

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BETTLES

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BIG DELTA

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BLACK

Hoare, J.M. and Condon, W.H., 1966

BLACK RIVER

Brabb, E.E., 1970

BLYLING SOUND

Tysdal, R.G. and Case, J.E., 1979

BRADFELD CANAL

Smith, J.G., Elliott, R.L., Berg, H.C., and Wiggins, B.D., 1977*

BRISTOL BAY

Detterman, R.L., Case, J.E., Wilson, F.H., and Yount, M.E., 1987
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Quaternary--Surficial--Engineering
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CANDLE

Patton, W.W., Jr., 1967

CAPE MENDENHALL**CHANDALAR**

Brosge, W.P. and Reiser, H.N., 1964
Quaternary--Surficial--Engineering
Hamilton, 1978

CHANDLER LAKE

Kelley, J.S., 1990
Quaternary--Surficial--Engineering
Hamilton, T.D., 1979

CHARLEY RIVER

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

CHIGNIK

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Brosgé, W.P. and Reiser, H.N., 1962

CIRCLE

Foster, H.L., Laird, Joe, Keith, T.E.C., Cushing, G.W., and Menzie, W.D., 1983

COLD BAY

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COLEEN

Brosgé, W.P. and Reiser, H.N., 1969

CORDOVA

Winkler, G.R. and Pfaffner, George, 1993

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Eberleinand, Churkin, Michael, Jr., Carter, Claire, Berg, H.C., and Ovenshine, A.T., 1983

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DEMARCATIION POINT

Bader, J.W. and Bird, K.J., 1986

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Carter, L.D., Ferrians, O.J., Jr., and Galloway, J.P., 1986*

DILLINGHAM

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

DIXON ENTRANCE

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EAGLE

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FLAXMAN ISLAND

Bader, J.W. and Bird, K.J., 1986

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FORT YUKON

GARELOI ISLAND

Frase, G.D. and Barnett, H.F., 1959

GOODNEWS

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

GULKANA

Quaternary--Surficial--Engineering

Williams, J.R. and Galloway, J.P., 1986*

HAGEMEISTER ISLAND

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

HARRISON BAY

Quaternary--Surficial--Engineering

Carter, L.D. and Galloway, J.P., 1985

HEALY

Csejty, Béla, Jr., Mullen, M.W., and Cox, D.P., 1992

HOLY CROSS

Csejty, Béla, Jr., [1993], unpub., USGS, Menlo Park, CA 94025

Caddy, W.M., Wallace, R.E., Hoare, J.M., and Webber, E.J., 1955

HOOVER BAY

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HOWARD PASS

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HUGHES

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ICY BAY

IDITAROD

Miller, M.L. and Bundtzen, T.K., 1994

IKPIKPUK RIVER

Quaternary--Surficial--Engineering

Carter, L.D. and Galloway, J.P., 1988

ILIAMNA

Detterman, R.L. and Reed, B.L., 1968

Quaternary--Surficial--Engineering

Detterman, R.L. and Reed, B.L., 1973

JUNEAU

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

KAGUYAK

Moore, G.W., 1967

Thrasher, G.P., 1979

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KANTISHNA RIVER

Chapman, R.M., Yeend, W.E., Brosge, W.P., and Reiser, H.N., 1975*

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KARLUK

Detterman, R.L., Case, J.E., Wilson, F.H., and Yount, M.E., 1987*

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KATEEL RIVER

Patton, W.W., Jr., 1966

KENAI

Detterman, R.L., Hudson, Travis, Plafker, George, Tysdal, R.G., and Hoare, J.M., 1976

Quaternary--Surficial--Engineering

Karlstrom, T.N., 1964*

KETCHIKAN

Berg, H.C., Elliott, R.L., and Koch, R.D., 1988

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KILLIK RIVER

Quaternary--Surficial--Engineering

Hamilton, T.D., 1980

KISKA

Coates, R.R., Nelson, W.H., Lewis, R.Q., and Powers, H.A., 1961

KODIAK

Connelly, William and Moore, J.C., 1979*

Moore, G.W., 1967

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KOTZEBUE

Till, A.B., Dumoulin, J.A., Gamble, B.M., Kaufman, D.S., and Carroll, P.I., 1986

Quaternary--Surficial--Engineering

Kaufman, D.S., 1986*

KUSKOKWIM BAY

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

KWIGUK

Hoare, J.M. and Condon, W.H., 1966

LAKE CLARK

Nelson, W.H., Carlson, Christine, and Case, J.E., 1983

LIME HILLS

Reed, B.L. and Elliot, R.L., 1970

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LIVENGOOD

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Yeend, Warren, 1983

MARSHALL

Hoare, J.M. and Condon, W.H., 1971

McCARTHY

MacKevett, E.M., Jr., 1978

McGRATH

Reed, B.L. and Elliot, R.L., 1970

MEADE RIVER

~~Quaternary--Surficial--Engineering~~

Williams, J.R., 1983

MEDFRA

Patton, W.W., Jr., Moll, E.J., Dutro, J.T., Jr., Silberman, M.L., and Chapman, R.M., 1980

MELOZITNA

Patton, W.W., Jr., Miller, T.P., Chapman, R.M., and Yeend, Warren, 1978

MIDDLETON ISLAND

Winkler, G.R. and Plafker, George, 1993

MISHEGUK MOUNTAIN**MOUNT FAIRWEATHER**

Loney, R.A., Brew, D.A., Muffler, L.J.P., and Pomeroy, J.S., 1975*

MacKevett and others, 1971

MOUNT HAYES

Nokleberg, W.J., Aleinikoff, J.N., Lange, I.M., Silva, S.R., Miyaoka, R.T., Schwab, C.E., and Zehner, R.E., 1992

MOUNT KATMAI

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MOUNT McKINLEY

Reed, J.C., Jr., 1961

MOUNT MICHELSON

Bader, J.W. and Bird, K.J., 1986

Quaternary--Surficial--Engineering

Carter, L.D., Ferrians, O.J., Jr. and Galloway, J.P., 1986*

MOUNT SAINT ELIAS

MacKevett, E.M., Jr., and Plafker, George, 1970*

NABESNA

Richeter, D.H., 1976

NAKNEK

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NOATAK**NOME**

Sainsbury, C.L., Hummel, C.L., and Hudson, Travis, 1972

NORTON BAY

Cass, J.T., 1959

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NULATO

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NUNIVAK ISLAND**NUSHAGAK BAY**

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OPHIR

Chapman, R.M., Patton, W.W., Jr., and Moll, E.J., 1985

PETERSBURG

Brew, D.A., Ovenshine, A.T., Karl, S.M., and Hunt, S.J., 1984

PHILIP SMITH MOUNTAINS

Brosge, W.P., Reiser, H.N., Dutro, J.T., Jr., and Detterman, R.L., 1979

Quaternary--Surficial--Engineering

Hamilton, T.D., 1978

POINT HOPE**POINT LAY****PORT ALEXANDER**

Brew, D.A., Ovenshine, A.T., Karl, S.M., and Hunt, S.J., 1984*

Loney, R.A., Brew, D.A., Muffler, L.J.P., and Pomeroy, J.S., 1975*

PORT MOLLER

Wilson, F.H., Dettelman, R.L., and Harris, D.E., 1991
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PRIBILOF ISLANDS

Barth, T.F.W., 1956

PRINCE RUPERT

Berg, H.C., Elliott, R.L., and Koch, R.D., 1988
Brew, D.A., compiler [1994], USGS, Menlo Park, CA 94025 [in revision]

RAT ISLANDS

Fraser, G.D. and Barnett, H.F., 1959

RUBY

Cass, J.T., 1959

RUSSIAN MISSION

Bundtzen, T.K. and Laird, G.M., 1991
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SAGAVANIRKTOK

Brosge, W.P., Dutro, J.T., Jr., Mangus, M.D., and Reiser, H.N., 1960

SAINT LAWRENCE

Patton, W.W., Jr., and Csejety, Béla, Jr., 1981

SAINT MATTHEW

Patton, W.W., Jr., Miller, T.P., Berge, H.C., Gryc, George, Hoare, J.M., and Ovenshine, A.T., 1975

SAINT MICHAEL

Hoare, J.M. and Condon, W.H., 1971

SAMALGA ISLAND

SEGUAM

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

SELAWIK

Karl, S.M., Dumoulin, J.A., Ellersieck, Inyo, Harris, A.G., and Schmidt, J.M., 1989*
Patton, W.W., Jr., and Miller, T.P., 1968

SELDOVIA

Csejte, Béla, Jr., [1988], unpub., Menlo Park, CA 94025
Quaternary--Surficial--Engineering
Karlsrom, T.N., 1964*

SEWARD

Tysdal, R.G. and Case, J.E., 1979

SHISHMAREF

SHUNGNAK

Patton, W.W., Jr., Miller, T.P., and Tailleux, I.L., 1968

SIMEONOF ISLAND

Wilson, F.H., Detterman, R.L., and Harris, D.E., 1991

Wilson, F.H., Detterman, R.L., and DuBois, G.D., [1994, in press]

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SITKA

Loney, R.A., Brew, D.A., Muffler, L.J.P., and Pomeroy, J.S., 1975*

SKAGWAY

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SLEETMUTE

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TAYLOR MOUNTAINS

TELLER

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TESHEKPUK

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Quaternary--Surficial--Engineering

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UMIAT

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UNIMAK

UTUKOK RIVER

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Quaternary-Surficial-Engineering

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WAINWRIGHT

Quaternary-Surficial-Engineering

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WISEMAN

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Quaternary-Surficial-Engineering

Hamilton, T.D., 1979

YAKUTAT

MacKevett, E.M., Jr. and Plafker, George, 1970*

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3

4

E2. - 1:63,360-SCALE (* partial mapping)

ADAK

AFOGNAK

AMBLER RIVER

.. AMUKTA

ANCHORAGE

Burns, L.E., Little, T.A., Newberry, R.J., Decker, J.E., and Pessel, G.H., 1983 (C2, C-3, D-2, D-3)

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Pavils, T.L., 1986 (C-5)

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ATKA

ATLIN

ATTU

BAIRD INLET

BAIRD MOUNTAINS

BARROW

BARTER ISLAND

BEAVER

BEECHEY POINT

Quaternary--Surficial-Engineering

Hickmott, D.R., 1986a (A-1)

Hickmott, D.R., 1986b (A-2)

Rawlinson, S.E., 1986a (A-3)

Rawlinson, S.E., 1986b (A-4)

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1969 (A-6, B-6, C-6, D-5, D-6)

BERING GLACIER

BETHEL

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BETTLES

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Weber, F.R., Foster, H.L., and Keith, T.E.C., 1977 (A-2, A-3)
Weber, F.R., Foster, H.L., Keith, T.E.C., and Cantelow, A.L., 1975 (A-1, B-1)
Williams, J.R., 1959 (D-6*)

BLACK

BLACK RIVER

BLYING SOUND

BRADFELD CANAL

Smith, J.G., Elliott, R.L., Berg, H.C., and Wiggins, B.D., 1977 (A-1)

BRISTOL BAY

CANDLE

CAPE MENDENHALL

CHANDALAR

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CHANDALAR LAKE

Kelley, J.S., 1984 (A-1, A-2*)

CHARLEY RIVER

CHIGNIK

CHRISTIAN

CIRCLE

COLD BAY

COLEEN

CORDOVA

Tysdal, R.G., Hudson, Travis, and Plafker, George, 1976b (B-2, A-2*)
Winkler, G.R., 1973 (A-7, A-8, B-6, B-7, B-8)

CRAIG

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DEMARCATON POINT

DILLINGHAM

DIXON ENTRANCE

EAGLE

Brabb, E.E. and Churkin, Michael, Jr., 1965 (D-1)
Clark, S.H.B. and Foster, H.L., 1969 (D-2, D-3)
Foster, H.L., 1969 (A-1, A-2)
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Péwé, T.L., 1958 (D-2)
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Wahrhaftig, Clyde, 1970c (A-4)
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FALSE PASS

FLAXMAN ISLAND

FORT YUKON

GARELOI ISLAND

GOODNEWS

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HAGEMEISTER ISLAND

HARRISON BAY

HEALY

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Silberling, N.J., Richter, D.H., Jones, D.L., and Coney, P.C., 1981 (A-1*)
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HOLY CROSS

HOOPER BAY

HOWARD PASS

HUGHES

ICY BAY

IDITAROD

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IKPIKPUK RIVER

ILIAMNA

Detterman, R.L., 1973 (B-2)

JUNEAU

Barker, Fred, 1957 (B-3)

KAGUYAK

KANTISHNA RIVER

KARLUK

KATEEL RIVER

KENAI

KETCHIKAN

Smith, J.G., 1977 (D-1)

KILLIK RIVER

KISKA

KODIAK

KOTZEBUE

KUSKOKWIM BAY

KWIGUK

LAKE CLARK

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LOOKOUT RIDGE

MARSHALL

McCARTHY

MacKevett, E.M., Jr., 1965 (B-5)

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Miller, D.I. and MacColl, R.S., 1964 (A-4*)

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McGRATH

Blodgett, R.B. and Gilbert, W.G., 1983 (A-4*, A-5*)

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MEADE RIVER

MEDFRA

MELOZITNA

Dillon, J.T., Adams, D.D., and Adler, Penny, 1983 (A-4)

MIDDLETON ISLAND

MISHEGUK MOUNTAIN

MOUNT FAIRWEATHER

MOUNT HAYES

Holmes G.W. and Péwé, T. L., 1965 (D-3)

Péwé, T.L. and Holmes, G.W., 1964 (D-4)

Richter, D.H., Sharp, W.N., Dutro, J.T., Jr., and Hamilton, W.B., 1977 (A-1*, A-2*)

Smith, T.E., 1981 (A-1)

MOUNT KATMIA

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MOUNT MICHELSON

Kelley, J.S. and Molenaar, C.M., 1988 (C-1, C-2, C-3)

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MOUNT SAINT ELIAS

NABESNA

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Richter, D.H., 1971a (A-3)

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Richter, D.H., 1973 (A-4)

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Richter, D.H. and Jones, D.L., 1973 (A-2)

Richter, D.H., Matson, N.A., Jr., and Schmoll, H.R., 1976 (C-4)

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Richter, D.H., Schmoll, H.R., and Matson, N.A., Jr., 1973 (A-1)

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Richter, D.H., Moll-Stalcup, E.J., Duffield, W.A., and Shew, Nora, [unpub.] (A-6)

NAKNEK

NOATAK

Mayfield, C.F., Ellersieck, Inyo, and Tailleux, I.L., 1987 (C-5, D-5, D-6, D-7)

NOME

Hummel, C.L., 1962a (C-1)

Hummel, C.L., 1962b (D-1)

Sainsbury, C.L., Smith, T.E., and Kachadoorian, Reuben, 1972 (D-3)

Sainsbury, C.L., Hudson, Travis, Ewing, Rodney and Marsch, W.R., 1972a (C-2)

Sainsbury, C.L., Hudson, Travis, Ewing, Rodney and Marsch, W.R., 1972b (C-3)

NORTON BAY

NULATO

NUNIVAK ISLAND

NUSHAGAK BAY

OPHIR

PETERSBURG

PHILIP SMITH MOUNTAINS

Reifensstuhl, R.R., Mull, C.G., Harris, E.E., Plumb, E.W., and Clough, J.G., 1993 (D-3)

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(C-3)

Quaternary--Surficial--Engineering

Waythomas, C.F., 1992 (C-3, C-4)

POINT HOPE

POINT LAY

PORT ALEXANDER

PORT MOLLER

PRIBILOF ISLANDS

PRINCE RUPERT

RAT ISLANDS

RUBY

RUSSIAN MISSION

Bundtzen, T.K. and Laird, G.M., 1991 (C-1)

SAGAVANIRKTOK

Pessel, G.H., Robinson, M.S., Clough, J.G., Inm, T.A., Reifensstuhl, R.R., Ryherd, T.J., Myers, M.D., and
Mull, C.G., 1990 (A-2)

Quaternary--Surficial--Engineering

Waythomas, C.F., 1991a (A-1, B-2)

Waythomas, C.F., 1991b (B-1)

SAINT LAWRENCE

SAINT MATTHEW

SAINT MICHAEL

SAMALGA ISLAND

SEGUAM

SELAWIK

SELDOVIA

SEWARD

Quaternary--Surficial--Engineering

Combellick, R.A., 1984a (D-6)

Combellick, R.A., 1984b (D-7)

SHISHMAREF

SHUNGNAK

SIMEONOF ISLAND

SITKA

SKAGWAY

MacKevett, E.M., Jr., Robinson, E.C., and Winkler, G.R., 1974 (B-3, B-4)

Quaternary--Surficial--Engineering

March, G.D., 1991 (C-2)

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SLEETMUTE

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SOLOMON

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Decker, John, Reifensuhl, R.R., and Coonrad, W.L., 1984 (B-5 compilation)

Reifensuhl, R.R. and Decker, John, 1985 (D-8 compilation)

Reifensuhl, R.R., Decker, John, and Coonrad, W.L., 1985 (D-4 compilation)

TELLER

Sainsbury, 1969a (B-4, C-4 *)

Sainsbury, C.L., Kachadoorian, Reuben, Hudson, Travis, and Richards, Thomas, 1969 (A-1, A-2, A-3, B-1, B-2, B-3, C-1)

TESHEKPUK

TRINITY ISLANDS

TYONEK

UGASHIK

UMIAT

UMNAK

UNALAKLEET

UNALASKA

UNIMAK

UTUKOK RIVER

VALDEZ

Coulter, H.W. and Coulter, E.B., 1961 (A-5)

Plafker, George, Lull, J.S., Nokleberg, W.J., Pessel, G.A., Wallace, W.K., and Winkler, G.R., 1989 (A-4, B-3, B-4, C-3, C-4)

Quaternary--Surficial--Engineering

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WAINWRIGHT

WISEMAN

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(C-1, D-1)

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