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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FIGURE

PRELIMINARY GEOLOGIC MAP AND STRUCTURE SECTIONS OF THE YAKATAGA DISTRICT, ALASKA

BY DON J. MILLER

1950

OFR #43

Scale 1: 96,000

10 MILES

80,000 FEET

INDEX MAP SHOWING LOCATION AND REGIONAL GEOLOGIC AND GEOGRAPHIC SETTING OF THE YAKATAGA DISTRICT, ALASKA
Scale 1: 2,500,000
50 0 50 100 150 MILES

AREA KNOWN TO BE UNDERLAIN OR PROBABLY UNDERLAIN BY TERTIARY SEDIMENTARY ROCKS

ANCHORAGE, VALDEZ, PRINCE WILLIAM SOUND, CORDOVA, SEWARD, MT. STEELER, MT. MILLER, MT. LEEPER, MT. ST. ELIAS, CHUGACH MTS., ST. ELIAS MTS., YAKATAGA DISTRICT, GULF OF ALASKA, MIDDLETON ISLAND, YAKATAGA AIRFIELD, CAPE YAKATAGA, ICY CAPE, POINT RIOU, ICY BAY, MALASPINA GLACIER, UNITED STATES, CANADA

CHUGACH MOUNTAINS
ST. ELIAS MOUNTAINS
ROBINSON MOUNTAINS
BERING GLACIER
STEELER GLACIER
GUYOT GLACIER
TAAN GLACIER
KLAER GLACIER
CHUGACH-ST. ELIAS FAULT
GINNER-YAKATAGA SYNCLINE
CLEAR CREEK SYNCLINE
WHITE RIVER
YAKATAGA RIVER
SALTSEA RIVER
KANAK RIVER
SCOTTY CREEK
SILVER CREEK
SALTSEA GLACIER
YAKATAGA GLACIER
TAAN RIVER
KLAER RIVER
KLAER HILLS
GUYOT HILLS
CHAIX HILLS
SULLIVAN MTN.
KULTHIETH MTN.

Base map sketched from the following sources: Published maps compiled by the U.S. Geological Survey, U.S. Coast and Geodetic Survey, and International Boundary Commission, unpublished maps by E.M. Sieler, M.S. Walton, Jr., and C.E. Kirschner, Geological Survey, and by the U.S. General Land Office; unpublished trimetrogon compilations by the Geological Survey; field triangulation by the 1946-47 Geological Survey Yakataga parties; and aerial photographs

Geology based mainly on field mapping by E.M. Sieler, M.S. Walton, Jr., and C.E. Kirschner, 1944
Geology based mainly on field mapping by D.J. Miller, R.B. Johnson, and J.K. Hartsock, 1946, 1947, 1948
Geology based mainly on interpretation of aerial photographs and ground-aerial reconnaissance views by D.J. Miller 1946-49

EXPLANATION

Unconsolidated fluvial, marine, and glacial deposits — Quaternary

Yakataga formation — Tertiary

Poul Creek formation — Tertiary

Lower Tertiary sequence — Tertiary

Sedimentary rocks, undifferentiated, older than Yakataga formation — Tertiary

Bedded rocks and intrusive igneous rocks, undifferentiated — Upper Cretaceous, Paleocene, Eocene, and Oligocene and Miocene; Middle and Lower Cretaceous; Pre-Tertiary

Geologic contacts, dashed, with dots, where approximately located or inferred

Fault, showing dip. Dashed where approximately located, dashed, with question mark, where inferred, dotted where concealed. U, upthrown side; D, downthrown side

Anticline, showing trace of axial plane; dashed where approximately located or inferred, dotted where concealed

Syncline, showing trace of axial plane; dashed where approximately located or inferred, dotted where concealed

Line of structure section

Strike and dip of beds

Strike of vertical beds

Horizontal beds

Strike and dip of beds estimated from ground and aerial photographs

Oil seepage

Building

Well drilled for oil

Camp site of Geological Survey field party

Section A-A'
Section B-B'
Section C-C'
Section D-D'
Section E-E'
Section F-F'
Section G-G'
Section H-H'
Section I-I'
Section J-J'