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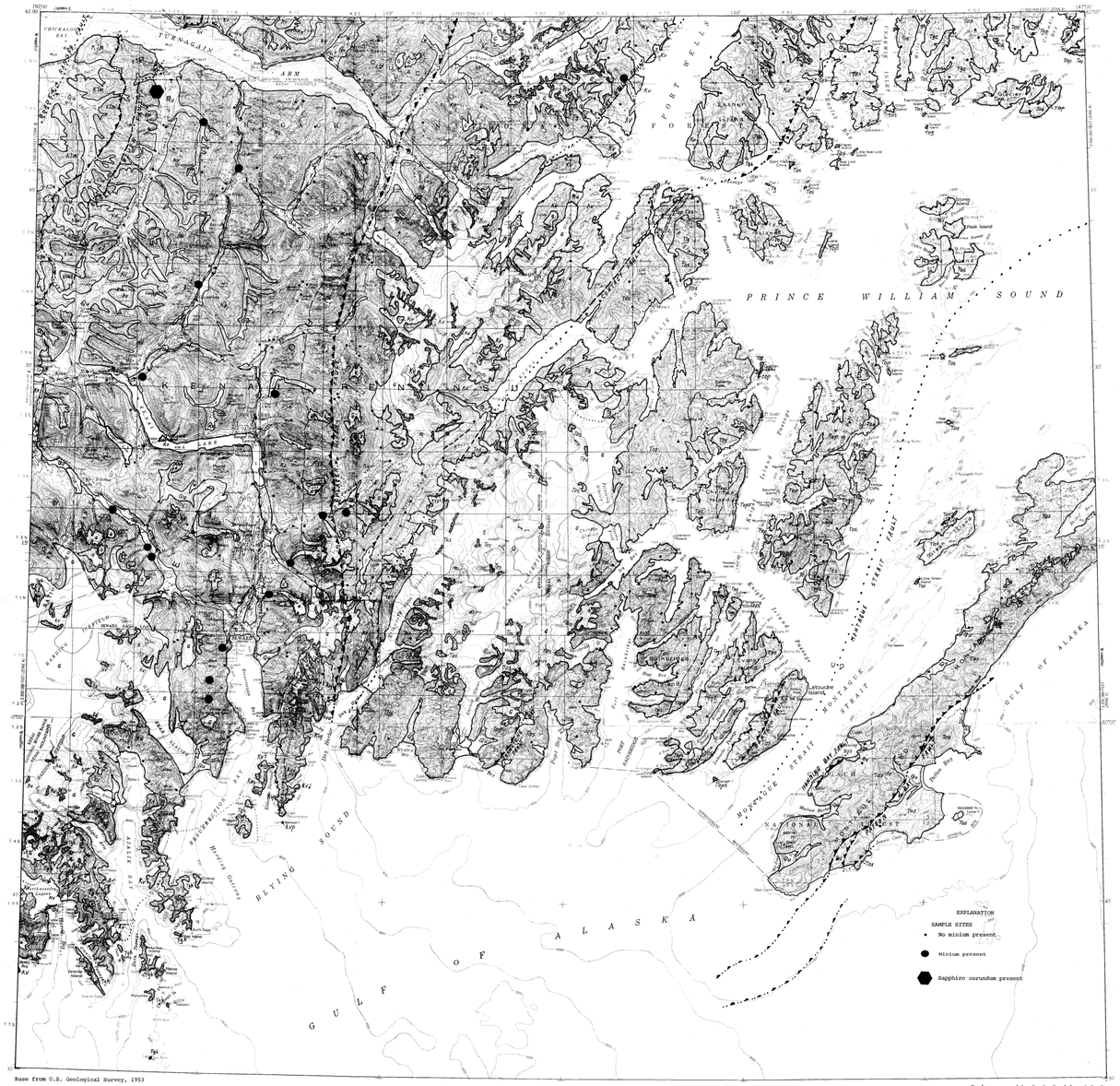
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

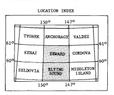
MISCELLANEOUS FIELD STUDIES
MAP MF-880G
SHEET 2 OF 2
FOLIO OF THE SEWARD AND BLYING SOUND QUADS., AK
MINERALOGICAL MAP, MINIUM, SAPPHIRE CORUNDUM,
CHALCOPYRITE AND ARSENOPYRITE



Base from U.S. Geological Survey, 1953

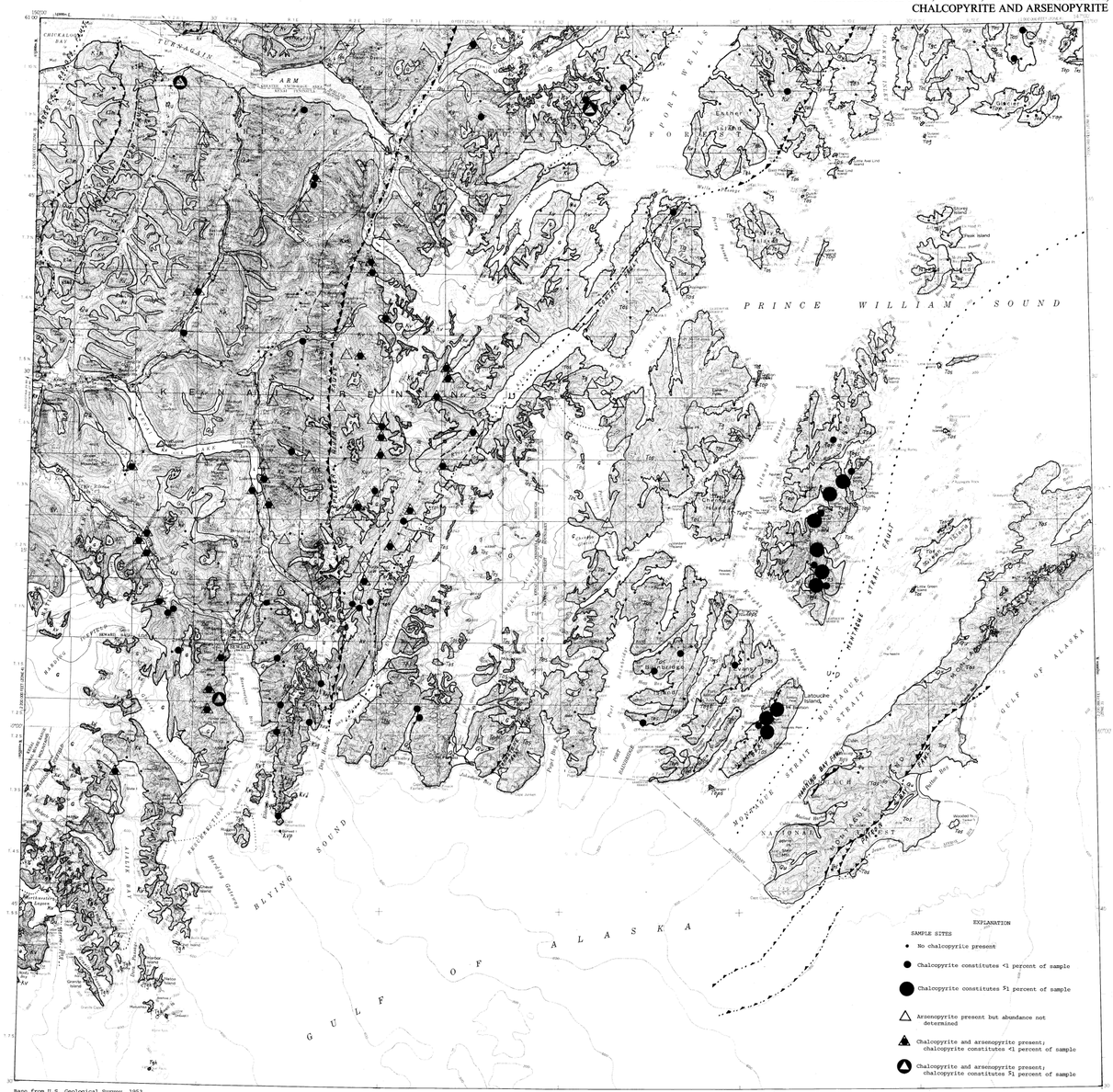
SCALE 1:250 000

CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL



Geology mapped by R. G. Tysdal and J. E. Case, 1975-77; sampling and mineralogy by R. B. Tripp, and W. D. Crim, 1975-76.

MINIUM AND SAPPHIRE CORUNDUM



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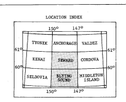
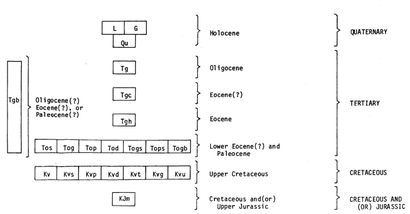


Geology mapped by R. G. Tysdal and J. E. Case, 1975-77; sampling and mineralogy by R. B. Tripp and W. D. Crim, 1975-76.

CHALCOPYRITE AND ARSENOPYRITE

CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

L LAKE

G GLACIER

Qu UNCONSOLIDATED SEDIMENTARY DEPOSITS, UNDIVIDED (HOLOCENE)

Tg GRANITE AND GRANODIORITE (OLIGOCENE)--Unfoliated granite and granodiorite

Tgc GRANITE (EOCENE?)--Muscovite-bearing granite of Cedar Bay area

Tgb GABBRO (OLIGOCENE?, EOCENE?, OR PALEOCENE?)--Olivine-bearing plutonic rocks

Tgh GRANITE OF HARDING ICEFIELD REGION (EOCENE)--Foliated granite

ORCA GROUP (LOWER EOCENE? AND PALEOCENE)

Tos Sedimentary rocks, undivided--Flysch of sandstone and siltstone

Tog Greenstone, undivided--Basaltic rocks not distinguished as to pillows, dikes, or tuffs

Top Pillow basalt--Submarine extrusive basalt

Tod Sheeted basalt dikes--Sequence composed almost wholly of dikes

Togs Greenstone and sedimentary rocks--Basalt sills and dikes intruding flysch

Tops Pillow basalt and sedimentary rocks--Interbedded pillow basalt and flysch

Togb Grabbro--Small plutons and locally coarse-grained dikes

VALDEZ GROUP (UPPER CRETACEOUS)

Kv Sedimentary rocks, undivided--Flysch of sandstone and siltstone, in part metamorphosed to slate and phyllite

Kvs Schist--Sandstone, siltstone, and some tuffs metamorphosed to biotite grade of greenschist facies

Kvp Pillow basalt--Submarine extrusive basalt

Kvd Sheeted basalt dikes--Sequence composed almost wholly of dikes

Kvt Tuff--Aquagene tuff interbedded with flysch

Kvg Gabbro--Large pluton that intrudes sheeted dikes and flysch

Kvu Ultramafic rocks--Small tabular bodies of serpentinized dunite

KJm McHUGH COMPLEX (CRETACEOUS AND(OR) UPPER JURASSIC) --Weakly metamorphosed clastic and volcanic rocks; in large part is a melange

——— CONTACT--Dashed where approximately located; dotted where concealed

– – – – HIGH-ANGLE FAULT--Dotted where concealed

▲▲▲▲ THRUST FAULT--Dotted where concealed. Sawteeth on upper plate

MINERALOGICAL MAP SHOWING THE DISTRIBUTION AND ABUNDANCE OF GOLD, SCHEELITE, CHALCOPYRITE, ARSENOPYRITE, MINIUM, AND SAPPHIRE CORUNDUM IN HEAVY-MINERAL CONCENTRATES IN THE SEWARD AND BLYING SOUND QUADRANGLES, ALASKA

By
R. B. Tripp and W. D. Crim

1978

This map is one of a series, all bearing the number MF-880. Background information relating to this map is published as U.S. Geological Survey Circular 760, available free of charge from the U.S. Geological Survey, Reston, VA. 22092

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