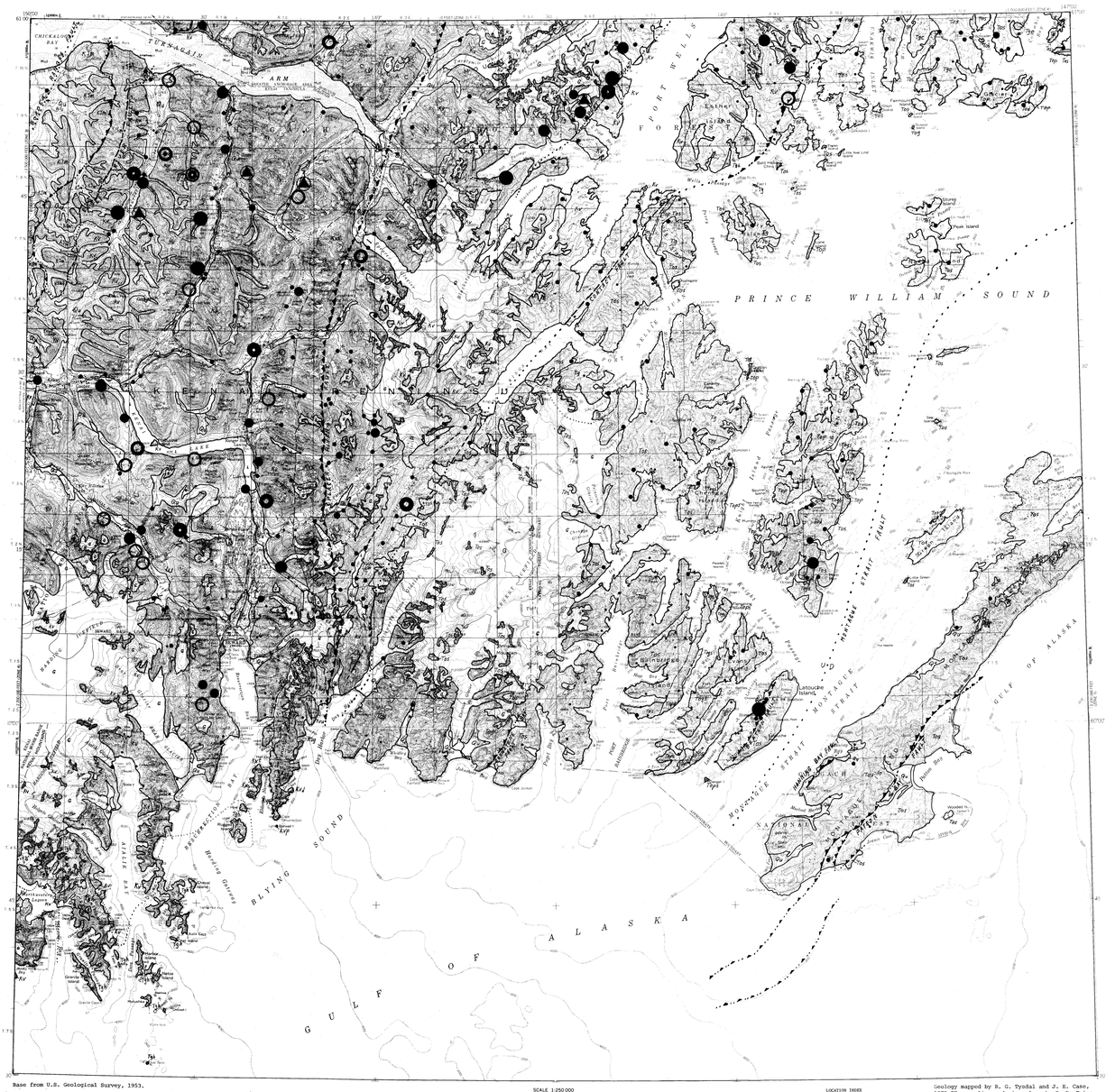
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

Please return to
MINERALS LIBRARY
A.D.G.G.S.

MISCELLANEOUS FIELD STUDIES
MAP MF-880F
SHEET 2 OF 2
FOLIO OF THE SEWARD AND BLYING SOUND QUADS., AK.
GEOCHEMICAL MAP, Ag and Au

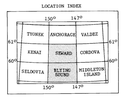



Base from U.S. Geological Survey, 1953.

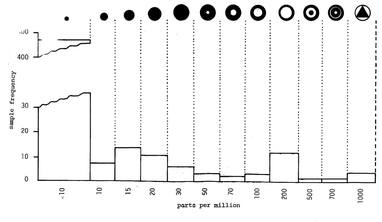
SCALE 1:250 000

CONTOUR INTERVAL 200 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.




## SILVER IN HEAVY-MINERAL CONCENTRATES OF STREAM-SEDIMENT SAMPLES




Histogram for silver in 542 heavy-mineral concentrates, showing symbols corresponding to concentrations in parts per million.

### CORRELATION OF MAP UNITS

| | | | |
|---|---|---|---|
| | L, G | Holocene | QUATERNARY |
| | Qu | | |
| | Tg | Oligocene | TERTIARY |
| Tgb | Tgc | Eocene(?) | |
| Oligocene(?) > Eocene(?), or Paleocene(?) | Tgh | Eocene | |
| | Tos, Tog, Top, Tod, Togs, Tops, Togb | Lower Eocene(?) and Paleocene | |
| | Kv, Kvs, Kvp, Kvd, Kvt, Kvg, Kvu | Upper Cretaceous | CRETACEOUS |
| | KJm | Cretaceous and(or) Upper Jurassic | CRETACEOUS AND (OR) JURASSIC |

### 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

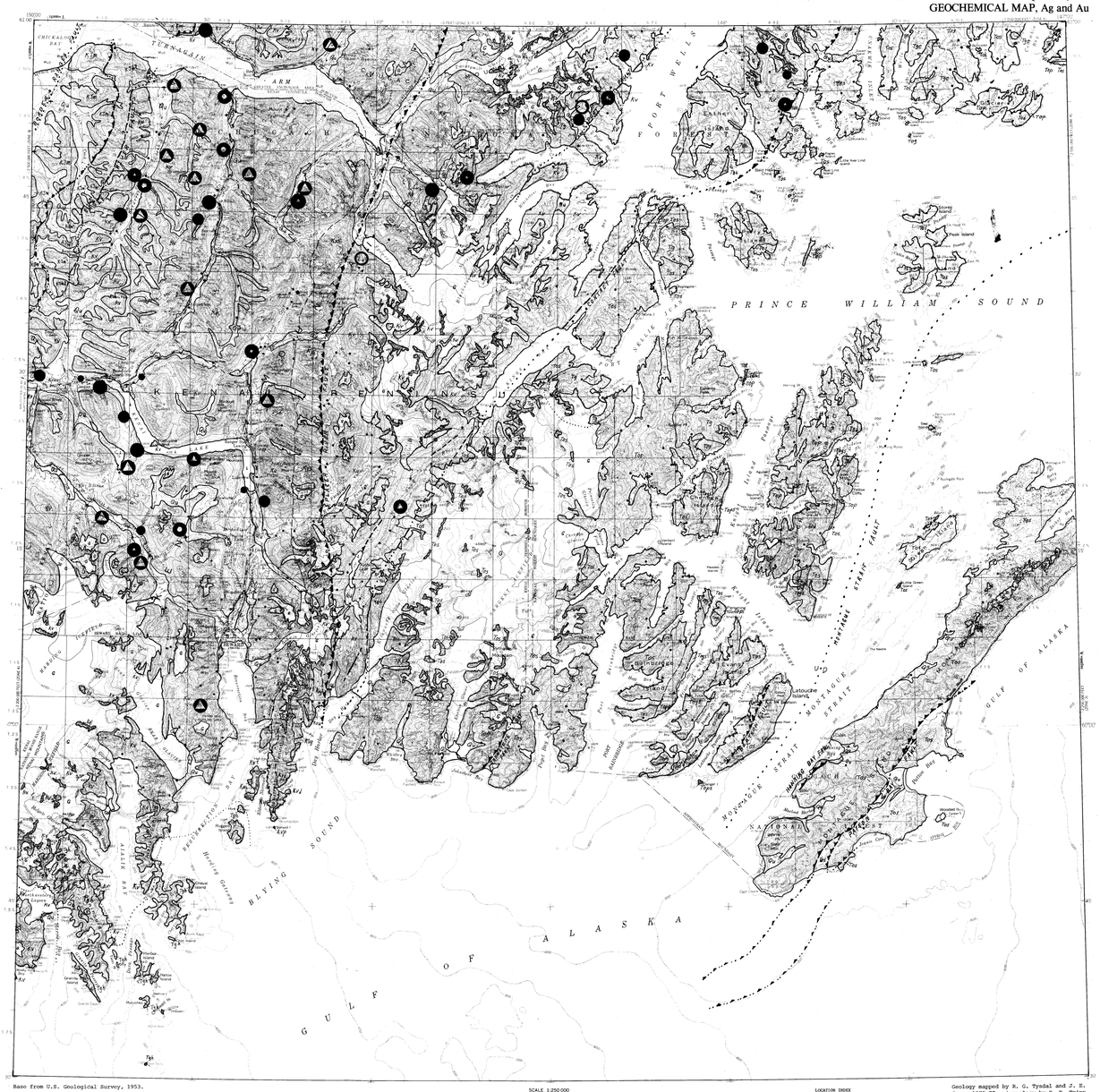
Kvu Ultramafic rocks--Small tabular bodies of serpentinized dunite

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

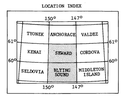



Base from U.S. Geological Survey, 1953.

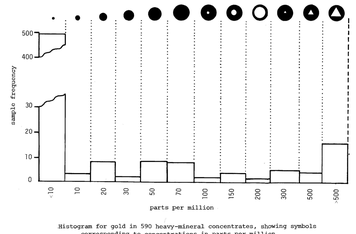
SCALE 1:250 000

CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL

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




## GOLD IN HEAVY-MINERAL CONCENTRATE OF STREAM SEDIMENT SAMPLES




Histogram for gold in 590 heavy-mineral concentrates, showing symbols corresponding to concentrations in parts per million.

# GEOCHEMICAL MAPS SHOWING THE DISTRIBUTION AND ABUNDANCE OF GOLD IN STREAM SEDIMENTS AND OF GOLD AND SILVER IN HEAVY-MINERAL CONCENTRATES IN THE SEWARD AND BLYING SOUND QUADRANGLES, ALASKA

By
R. B. Tripp, W. D. Crim, R. M. O'Leary
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

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1978

For sale by Branch of Distribution, U.S. Geological Survey, Box 25286, Federal Center, Denver, CO 80225