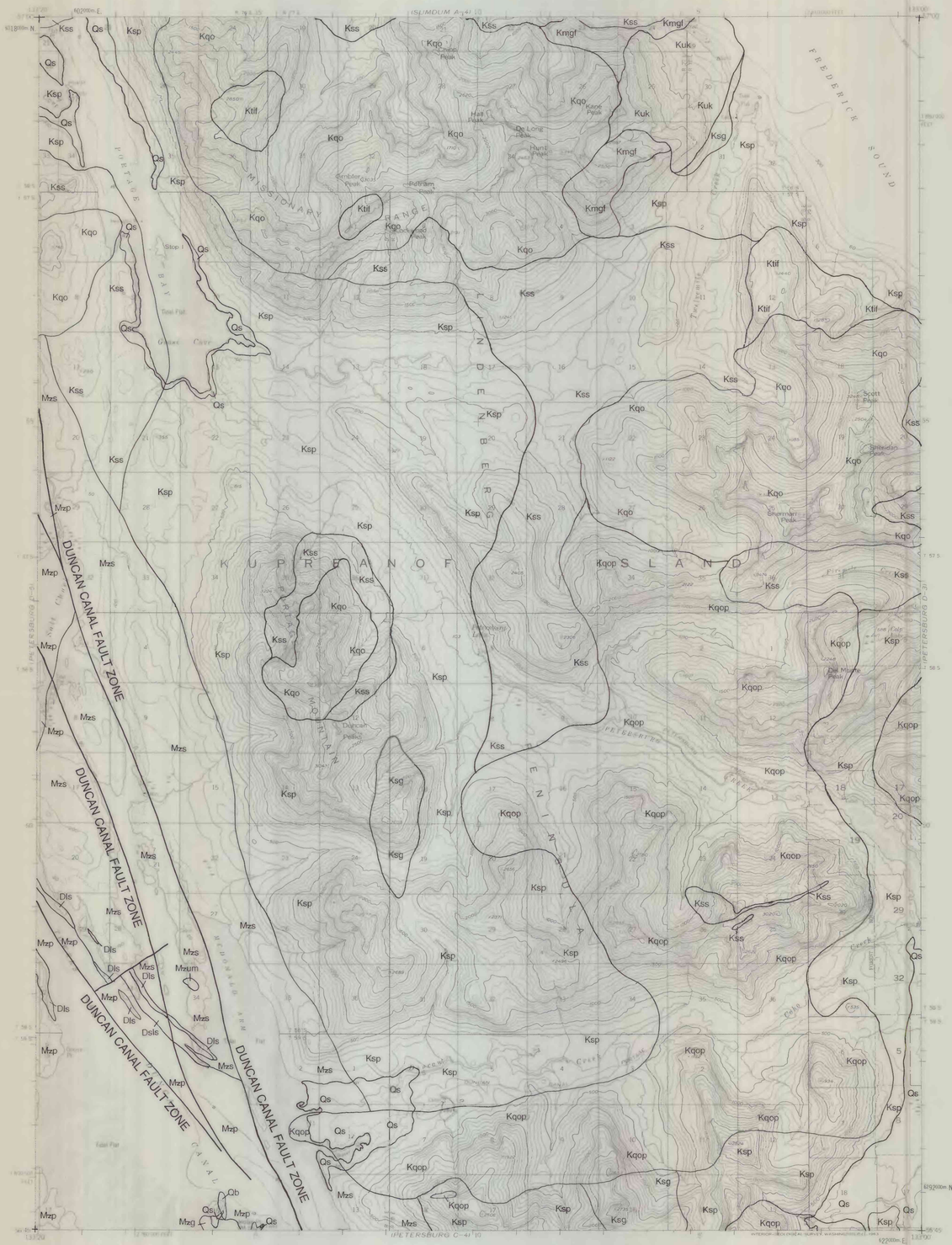
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OPEN-FILE REPORT
97-156-L
Pamphlet accompanies map
BREW, David A., Reconnaissance Geologic Map of the Petersburg D-4 Quadrangle, southeastern Alaska



Base from U.S.G.S 1:63,360
Topographic Map Series, 1951

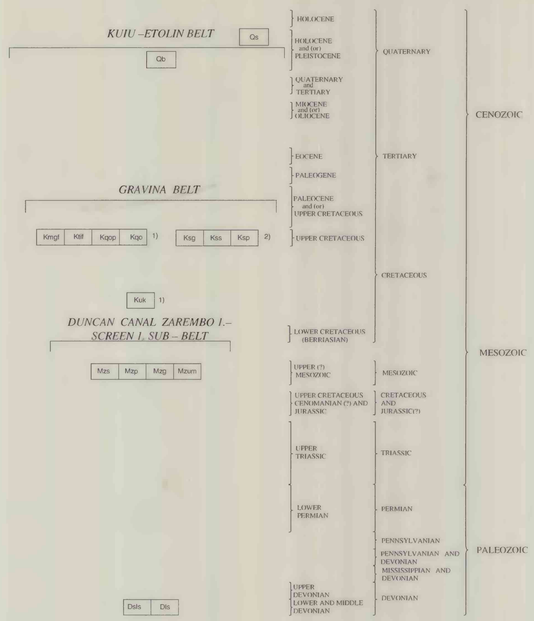
SCALE 1:63 360

CONTOUR INTERVAL 100 FEET
DASHED LINES REPRESENT 50-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL
DEPTH CURVES IN FEET--DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE KLAN RANGE OF TIDE IS APPROXIMATELY 23 FEET

Geologic Mapping by:
D.A. Brew, H.C. Berg, P.D. Burrell, M. Churkin, Jr., I. Ellersieck, A.B. Ford, G.R. Himmelberg, C. Huie, S.J. Hunt, S.M. Karl, R.D. Koch, T.E. Moore, R.P. Morrell, A.T. Ovenshine, K. Reading, and R.A. Sonnevil; 1978-1988

CORRELATION OF MAP UNITS IN THE PETERSBURG D-4 QUADRANGLE

(SEE INDEX MAP FOR LOCATION OF BELTS)



NOTES:
1. AGE OF EMPLACEMENT
2. AGE OF METAMORPHISM

BRIEF DESCRIPTION OF MAP UNITS IN THE PETERSBURG D-4 QUADRANGLE

Qs SURFICIAL DEPOSITS (Holocene and(or) Pleistocene)--Alluvium, colluvium, tidal mudflat deposits, and some glaciofluvial deposits.

KUIU-ETOLIN BELT

EXTRUSIVE AND INTRUSIVE VOLCANIC ROCKS OF KUIU-ETOLIN VOLCANIC-PLUTONIC BELT (Quaternary and Tertiary)

Qb Extrusive Basaltic Rocks and Underlying Sediments (Holocene and(or) Pleistocene)

GRAVINA BELT

INTRUSIVE ROCKS OF ADMIRALTY-REVILLAGIGEDO PLUTONIC BELT AND ASSOCIATED MIGMATITE (Upper Cretaceous)

Kmgf Migmatite
Ktif Hornblende-Biotite Tonalite, Granodiorite, Quartz Monzodiorite, and Quartz Diorite
Kqop Biotite-Epidote-Hornblende Quartz Monzodiorite
Kqo Pyroxene-Biotite-Hornblende-Quartz Monzodiorite, Quartz Diorite, Monzodiorite, and Diorite

METAMORPHOSED STEPHENS PASSAGE GROUP ROCKS (Upper Cretaceous)

Ksg Greenstone and Greenschist
Kss Schist and Hornfels
Ksp Phyllite

INTRUSIVE ROCKS OF KLUKWAN-DUKE PLUTONIC BELT (Cretaceous)

Kuk Ultramafic Complex at Kane Peak

DUNCAN CANAL-ZAREMBO ISLAND-SCREEN ISLAND SUB-BELT OF THE GRAVINA BELT

METAMORPHOSED STEPHENS PASSAGE GROUP AND OTHER ROCKS (Upper(?) Mesozoic)

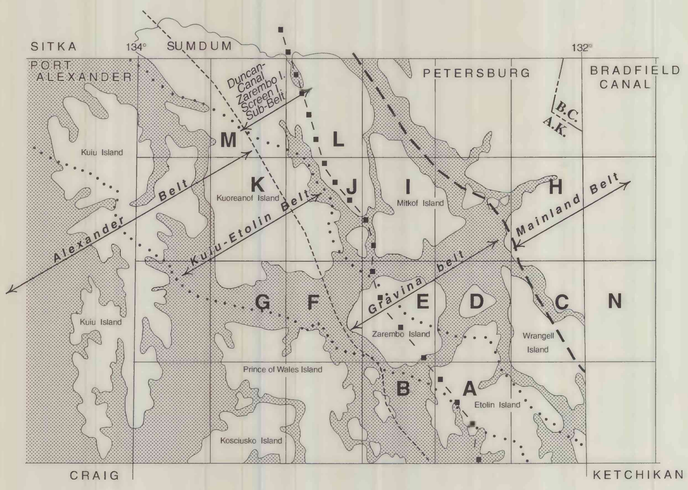
Mzs Semischist and phyllite
Mzp Phyllite and Slate Metamorphosed From Tuff, Mudstone and Minor Graywacke
Mzg Metamorphosed Gabbro
Mzum Ultramafic Rock

Dsls MIXED SILTSTONE, GRAYWACKE, AND FOSSILIFEROUS LIMESTONE (Lower and Middle Devonian)
Dls FOSSILIFEROUS LIMESTONE (Lower and Middle Devonian)

LINE SYMBOLS

Contact; shown as solid line where position is known or inferred and where concealed by younger units or water; this convention has been adopted to facilitate future scanning and digitizing of this map data

High-angle fault; shown as solid line where position is known or inferred and where concealed by younger units or water; this convention has been adopted to facilitate future scanning and digitizing of this map data



Index map of Petersburg project area (Brew and others, 1984) showing locations of belts mentioned in text and on Correlation of Map Units diagram and the locations of 1:250,000- and 1:63,360-scale quadrangles. The 1:63,360-scale quadrangles in this Open-File Report map series (OFR 97-156a-n) are indicated by capital letters. The different types of lines bounding the belts have no special significance.

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

RECONNAISSANCE GEOLOGIC MAP OF THE PETERSBURG D-4 QUADRANGLE, SOUTHEASTERN ALASKA

By
David A. Brew

1997