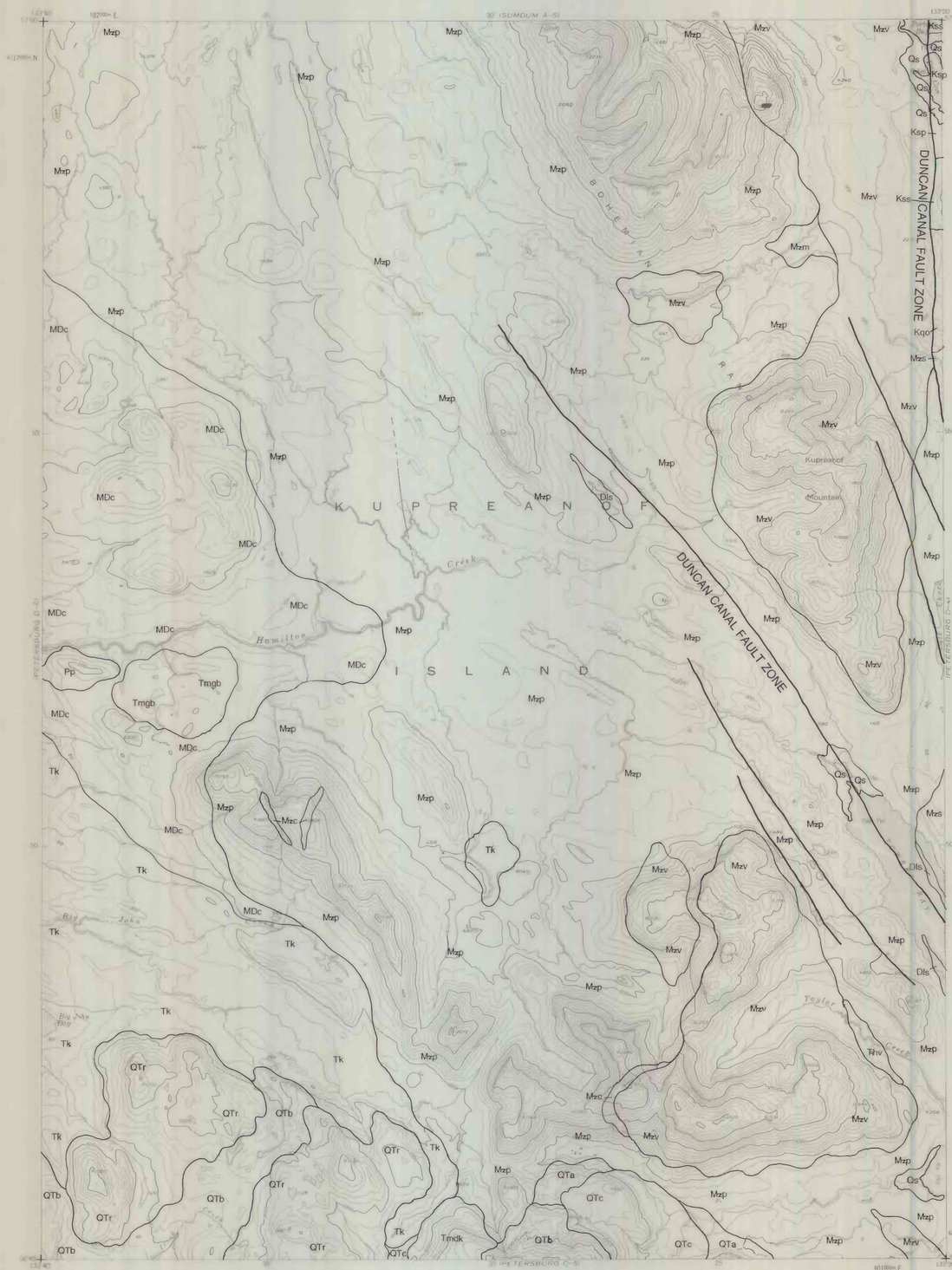
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OPEN-FILE REPORT
97-156-M
Pamphlet accompanies map
BREW, David A., Reconnaissance Geologic Map of the Petersburg D-5 Quadrangle, southeastern Alaska



Base from U.S.G.S 1:63,360
Topographic Map Series, 1948

SCALE 1:63 360
1 1/2 0 1 2 3 4 MILES
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET
1 .5 0 1 2 3 4 5 KILOMETERS
CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL

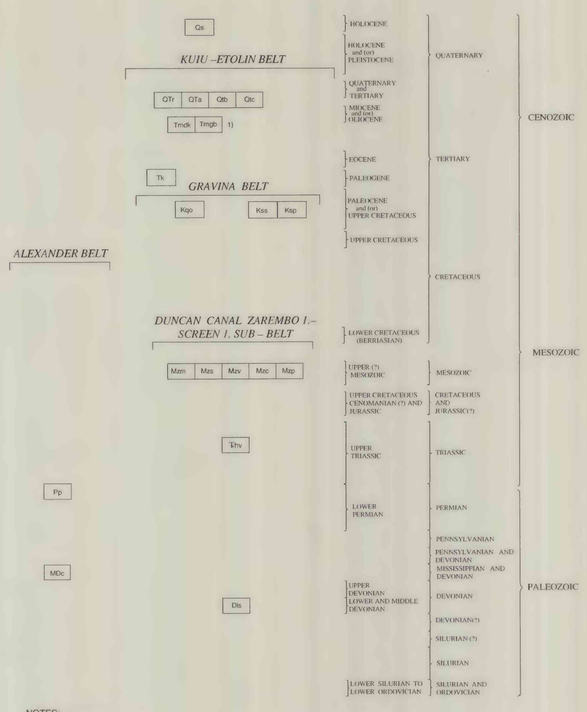
APPROXIMATE MEAN DECLINATION, 1955

ALASKA
QUADRANGLE LOCATION

Geologic Mapping by:
D.A. Brew, H.C. Berg, P.D. Burrell, I. Ellersieck, A.B. Ford, D.J. Grybeck, C. Huie, S.J. Hunt, S.M. Karl, R.D. Koch, R.P. Morrell, and R.A. Sonnevil; 1978-1983

CORRELATION OF MAP UNITS IN PETERSBURG D-5 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-5 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)

QTc Volcaniclastic Deposits
QTr Rhyolite, Rhyodacite, and Related Siliceous Extrusive and Intrusive Rocks
QTa Andesite and Other Intermediate Extrusive Rocks
QTb Basalt and Other Mafic Extrusive Rocks

INTRUSIVE GRANITIC AND OTHER ROCKS OF KUIU-ETOLIN VOLCANIC-PLUTONIC BELT (Miocene and(or) Oligocene)

Tmdk Heterogeneous Dioritic Rocks of Northern Kuiu Island
Tmgb Gabbro and microgabbro

Tk KOOTZNAHOO FORMATION (Paleogene)--Nonmarine arkosic sandstone, sandstone, shale, and conglomerate

ALEXANDER BELT

Pp PYBUS FORMATION (Lower Permian)--Limestone, dolomite, and chert.

MDc CANNERY FORMATION (Mississippian and Devonian)

GRAVINA BELT

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

Kqo Pyroxene-Biotite-Hornblende-Quartz Monzodiorite, Quartz Diorite, Monzodiorite, and Diorite

METAMORPHOSED STEPHENS PASSAGE GROUP ROCKS (Upper Cretaceous)

Kss Schist and Hornfels
Ksp Phyllite

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

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

Mzm Greenschist, Chert, Limestone, and Argillite
Mzs Semischist and phyllite
Mzv Greenschist And Greenstone Metamorphosed From Intermediate To Mafic Volcanic Rocks
Mzc Quartzite Metamorphosed From Chert
Mzp Phyllite and Slate Metamorphosed From Tuff, Mudstone and Minor Graywacke

HYD GROUP(?) (Upper Triassic)

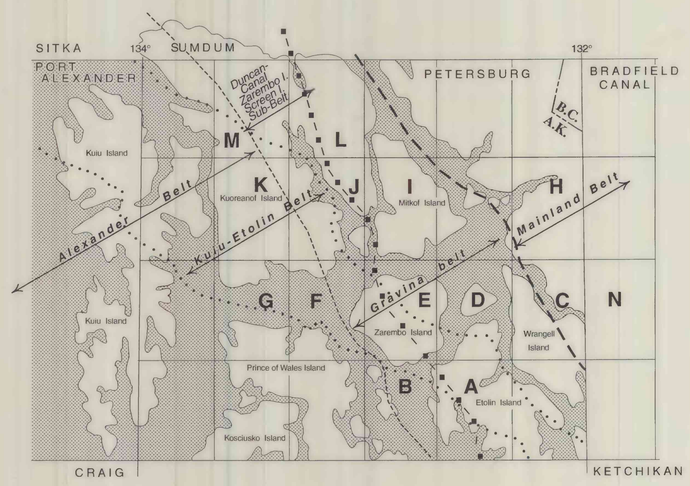
Trhv Felsic and Intermediate Volcanic Flows and Breccia, Limestone, and Argillite

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.

RECONNAISSANCE GEOLOGIC MAP OF THE PETERSBURG D-5 QUADRANGLE, SOUTHEASTERN ALASKA

By
David A. Brew

1997