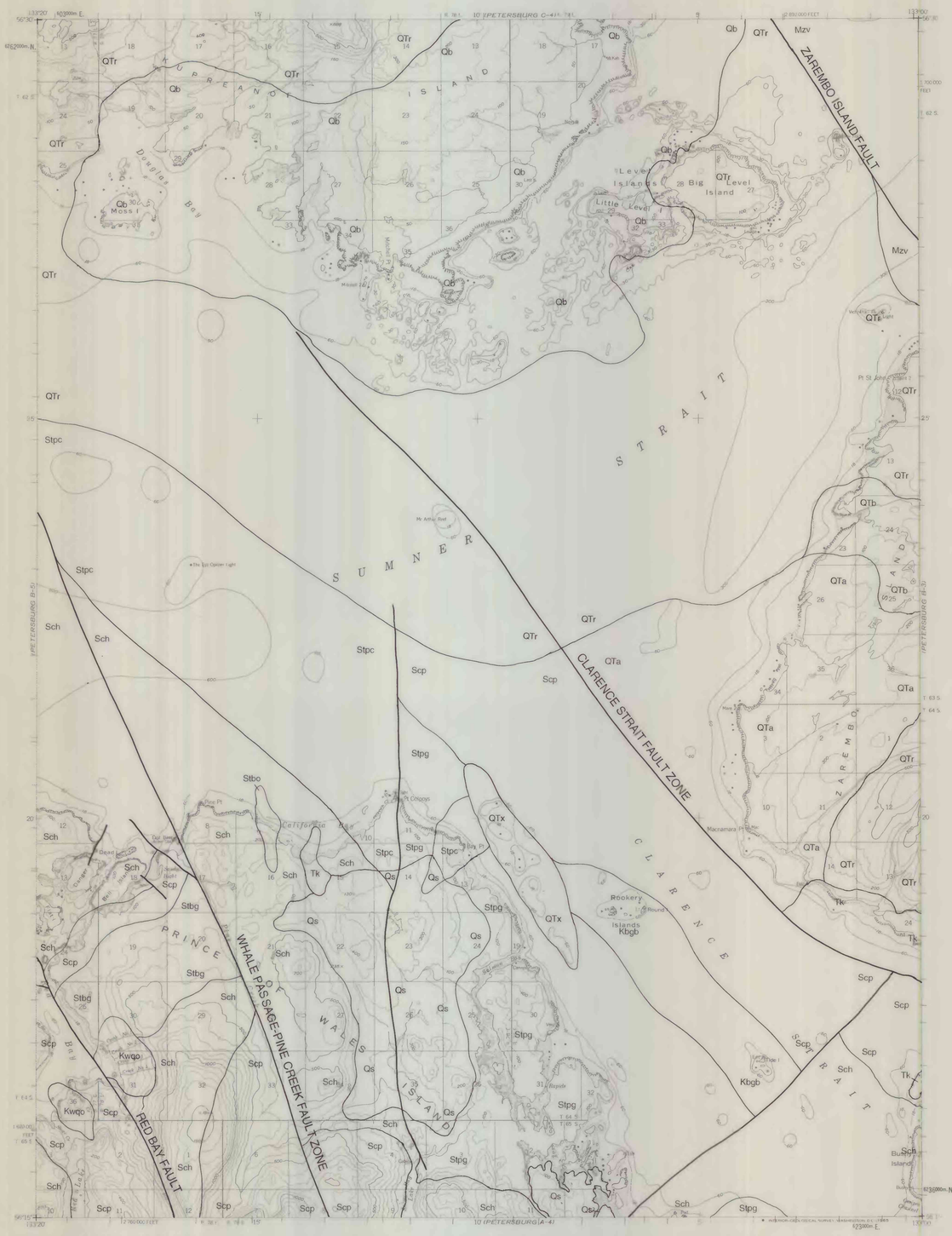
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

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



Base from U.S.G.S 1:63,360
Topographic Map Series, 1949

SCALE 1:63 360

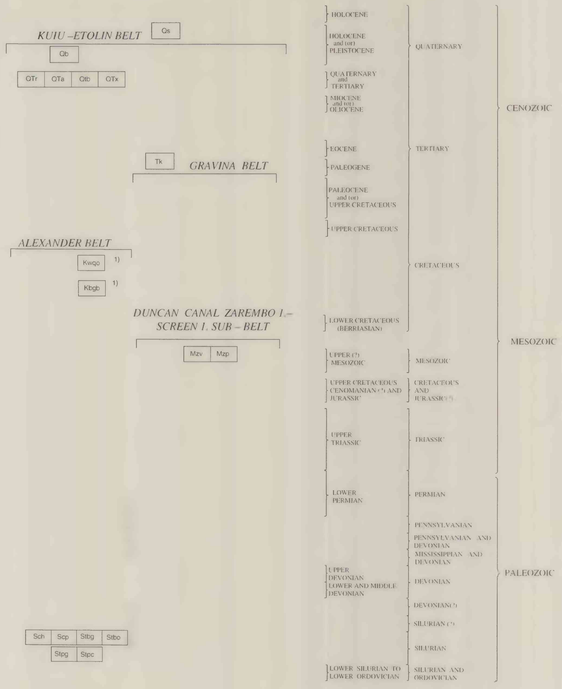
1 1/2 0 1 2 3 4 MILES
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET
1 5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 100 FEET
DOTTED 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 AVERAGE RANGE OF TIDE IS APPROXIMATELY 12 FEET

APPROXIMATE MEAN DECLINATION, 1949

Geologic Mapping by:
D.A. Brew, A. Barrows, H.C. Berg, M. Churkin, Jr., R.L. Elliott, J.G. Evans, A.B. Ford, D.J. Grybeck, S.J. Hunt, S.M. Karl, R.P. Morrell, A.T. Ovenshine, R.A. Sonnevil, and G.D. Webster; 1968-1980

CORRELATION OF MAP UNIT IN THE PETERSBURG B-4 QUADRANGLE
(SEE INDEX MAP FOR LOCATION OF BELTS)



NOTES:
1. AGE OF EMPLACEMENT

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the U.S.G.S.

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

Qs SURFICIAL DEPOSITS (Holocene and(or) Pleistocene)

KUIU-ETOLIN BELT

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

Qb Extrusive Basaltic Rocks and Underlying Sediments
QTr Rhyolite, Rhyodacite, and Related Siliceous Extrusive and Intrusive Rocks
QTa Andesite and Other Intermediate Extrusive Rocks
QTb Basalt and Other Mafic Extrusive Rocks
QTx Breccia and Agglomerate

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

ALEXANDER BELT

INTRUSIVE ROCKS OF THE CHILKAT-PRINCE OF WALES PLUTONIC PROVINCE (Cretaceous)

Kwqo Hornblende Quartz Monzodiorite with Minor Tonalite, Granodiorite, Quartz Diorite, Diorite, Quartz Monzonite, and Monzodiorite

ULTRAMAFIC COMPLEX AT BLASHKE ISLANDS AND RELATED ROCKS (Cretaceous)

Kbgb Clinopyroxene-Hornblende Gabbro

PRINCE OF WALES ISLAND SEQUENCE (Devonian to Ordovician)

Carbonate Rocks and Associated Conglomerates (Upper to Lower Silurian)

Sch Heceta Limestone
Scp Polymictic Conglomerate

Turbidites and associated rocks (Upper Silurian to Lower Ordovician)

Bay of Pillars Formation on Kuiu and western Prince of Wales Islands (Upper to Lower Silurian)--

Stbg Graywacke, Mudstone, Turbidites, and Limestone
Stbo Olistostrome Blocks of Heceta Limestone in Turbidite Matrix

Bay of Pillars Formation on Northeastern Prince of Wales Island (Upper(?) to Lower Silurian).

Stpg Graywacke, Slate, and Limestone
Stpc Conglomerate, Agglomerate, and Volcanic Breccia

GRAVINA BELT

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

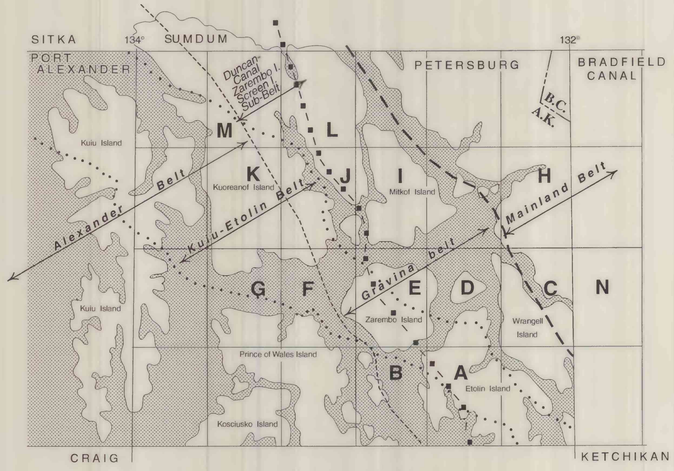
METAMORPHOSED STEPHENS PASSAGE GROUP AND OTHER ROCKS (Upper(?) Mesozoic)

Mzv Greenschist And Greenstone Metamorphosed From Intermediate To Mafic Volcanic Rocks

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; locally extended for long distances beneath water where no control is available

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 B-4 QUADRANGLE, SOUTHEASTERN ALASKA

By
David A. Brew
1997