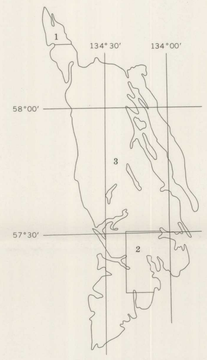
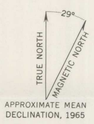
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1181-R
PLATE 1



COMPILATION DIAGRAM
1 Barker (1957)
2 Loney (1964)
3 Reconnaissance mapping



APPROXIMATE MEAN DECLINATION, 1965

Base from U.S. Geological Survey
1:250,000 Alaska series maps

ADMIRALTY ISLAND

SCALE 1:250 000

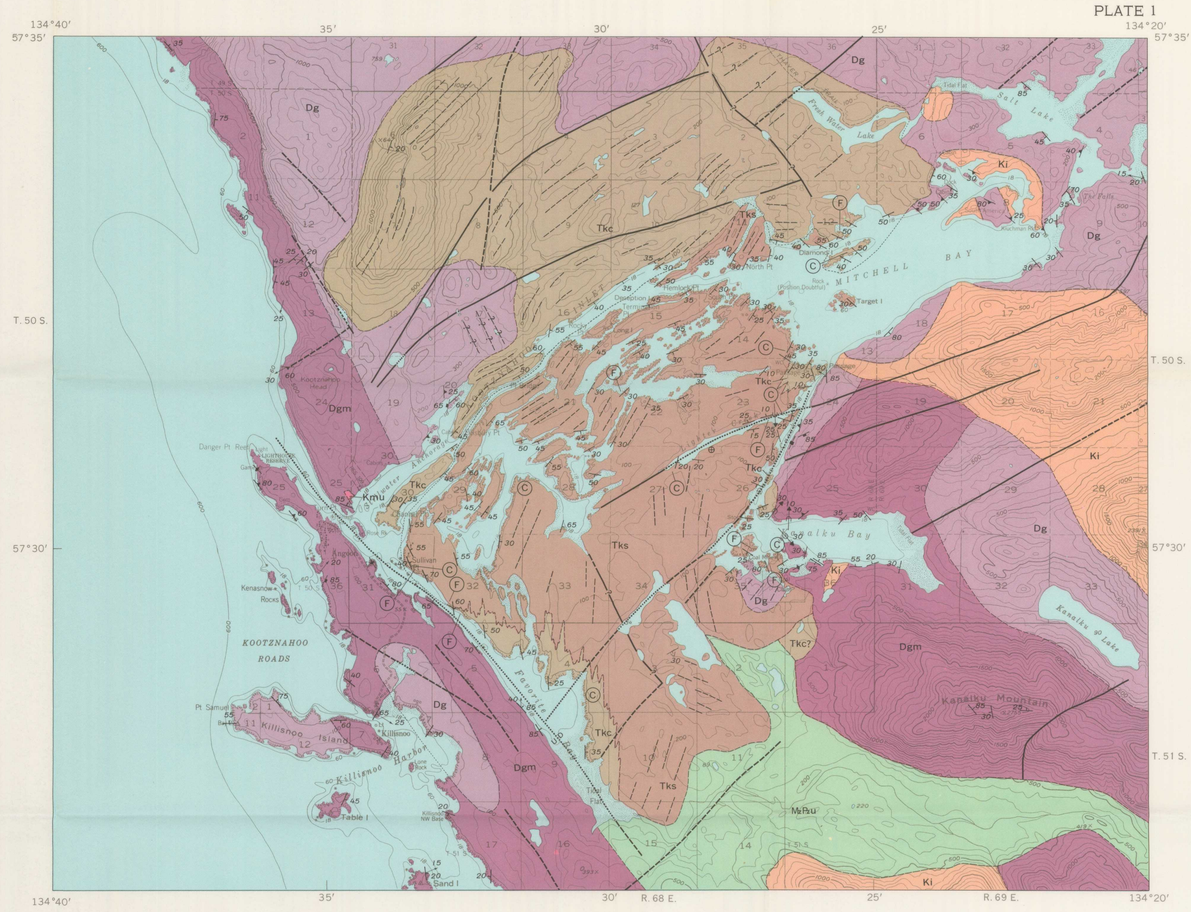
5 0 5 10 15 20 MILES

5 0 5 10 15 20 KILOMETERS

CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL
DEPTH CONTOURS IN FEET—DATUM IS MEAN LOWER LOW WATER

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1965—G64196

Geology by E. H. Lathram, R. A. Loney, W. H. Condon, H. C. Berg, J. S. Pomeroy, D. W. Hinckley, and Maurice Grolier, 1957–59



Base from parts of Sitka C–2 and B–2
1:63,360 series topographic maps

KOOTZNAHOO INLET AREA

SCALE 1:63 360

1 ½ 0 1 2 3 4 5 MILES

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL
DEPTH CURVES IN FEET—DATUM IS MEAN LOWER LOW WATER

Geology by J. S. Pomeroy, H. C. Berg, and D. W. Hinckley, 1959

EXPLANATION

Ta — Admiralty Island Volcanics
Andesitic basalt flow rocks of Eocene and Oligocene age

Tk, Tks, Tkc — Kootznahoo Formation
Tk, *conglomerate, sandstone, siltstone, shale, and coal*
Tks, *sandstone, siltstone, shale, and minor amounts of conglomerate and coal*
Tkc, *conglomerate, with minor amounts of sandstone and shale*

Paleocene through Miocene — TERTIARY

ANGULAR UNCONFORMITY

Kf, Ki, Kmu — Plutonic rocks
Includes felsic (Kf), intermediate (Ki), and mafic and ultramafic (Kmu) types

Middle(?) Cretaceous

KJsc, KJs — Seymour Canal Formation
KJs, *slate and graywacke*
KJsc, *conglomerate*

KJd — Douglas Island Volcanics
Includes Brothers Volcanics on The Brothers

Upper Jurassic and Lower Cretaceous — Stephens Passage Group

JURASSIC AND CRETACEOUS

UNCONFORMITY

Trh — Hyd Formation
Volcanic rock, limestone, slate, chert, and conglomerate

Upper Triassic — TRIASSIC

UNCONFORMITY

Pp — Pybus Dolomite

Pc — Cannery Formation
Graywacke, slate, phyllite, and conglomerate

Lower Permian — PERMIAN

UNCONFORMITY

Dh — Hood Bay Formation
Argillite and chert. Age, Devonian(?)

Dgm, Dg — Gambier Bay Formation
Dg, *schist*
Dgm, *thick marble lenses. Age, Middle(?) Devonian*

Drs, Dr — Retreat Group
Dr, *schist with marble interbeds*
Drs, *serpentinized dolomite. Age, Middle(?) Devonian*

DEVONIAN AND DEVONIAN(?)

UNCONFORMITY (?)

Ss — Sedimentary rocks
Graywacke, slate, and limestone

SILURIAN(?)

TrPu, TrPb — Volcanic rocks, argillite, and chert, undifferentiated
Includes Barlow Cove Formation (TrPb), of Permian and Triassic(?) age

PERMIAN AND TRIASSIC

MzPzu — Metamorphic rocks, undifferentiated

MzPzm — Migmatite, gneiss, and feldspathic schist

PALEOZOIC AND MESOZOIC

Dashed where approximately located, gradational, or inferred contacts; dotted where concealed. All dashed contacts in the Kootznahoo Inlet area are inferred

Fault
Dashed where inferred, queried where probable, dotted where concealed. Relative movement is indicated; U, upthrown side; D, downthrown side; queried where relative movement uncertain

Inferred reverse fault
R, upthrown side

Overturned anticline
Showing crest line, direction of dip of limbs, and direction of plunge of axis. Dashed where approximately located

Antiform
Showing crest line. Indicates general upward convergence of beds, foliation, or composition banding in structurally complex rocks. Dashed where approximately located

Overturned syncline
Showing position of trough and direction of dip of limbs. Dashed where approximately located

Synform
Showing position of trough. Indicates general downward convergence of beds, foliation, or compositional banding in structurally complex rocks. Dashed where approximately located

Plunge of minor folds
Anticline 20 — *Syncline* 15

Strike and dip of beds
30 *Inclined* — 65 *Overturned* — *Vertical* — *Horizontal*

Strike and dip of beds by distant observations or photointerpretation

50 *Inclined* — *Vertical*
Strike and dip of foliation

Anticlinal fold in foliation
Showing trace of axial plane and bearing and plunge of axis

Overturned synclinal fold in foliation
Showing position of trough and direction of dip of limbs

Lineation
Showing bearing and plunge of small fold axes, crenulations, striations, grooves, mineral alinement, boudinage, mullions, bedding-cleavage-foliation intersections

Horizontal lineation

75 *Inclined* — 35 *Vertical*
Strike and dip of beds and plunge of lineation

20 — 10
Strike and dip of foliation and plunge of lineation

35 *Inclined* — *Vertical*
Strike and dip of joints

Trace of bedding
Based on photointerpretation, queried where doubtful

(F) Fossil locality

(C) Coal prospect

GEOLOGIC MAPS OF ADMIRALTY ISLAND AND KOOTZNAHOO INLET AREA, ALASKA