UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1141-O
PLATE 1

RECONNAISSANCE GEOLOGIC MAP OF NORTHERN BARANOF ISLAND, ALASKA

SCALE 1:125 000

2 1 0 2 4 6 MILES

CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL

1958 MAGNETIC DECLINATION VARIES FROM 29° TO 29°30′ EAST

EXPLANATION

QUATERNARY — *Pleistocene and Recent*

Qe — Edgecumbe Volcanics
Andesitic lava, tuff, and pyroclastic debris of Recent age; interpreted and mapped largely by photogeologic methods

Qu — Unconsolidated sediments
Includes volcanic ash deposits of Recent age, and alluvium and glacial debris of Pleistocene and Recent age

UNCONFORMITY

JURASSIC AND CRETACEOUS

KJg — Gabbro
Massive to intensely sheared pyroxene gabbro. Jurassic (?) or Cretaceous (?)

KJi — Probable intrusive rocks
Probable sills of altered granitoid rocks, probably gabbro, in part. Mapped in part from unpublished field data of F. E. Wright (1904) and Knopf (1910). Late Jurassic or Early Cretaceous

KJqd — Quartz diorite
Granular to gneissose hornblende-biotite quartz diorite. Lesser amounts of hornblende-biotite diorite, granodiorote, and granite; quartz diorite porphyry; and hornblende gabbro. Late Jurassic or Early Cretaceous

KJs, KJsv — Sitka Group
Massive graywacke; thin-bedded graywacke and argillite; argillite, conglomerate, and breccia
KJsv, *volcanic rocks and (or) chert*
Late (?) Jurassic and Early Cretaceous

DISCONFORMITY? OR LOCAL ANGULAR UNCONFORMITY?

TRIASSIC(?)

Ŧrk, Ŧrkj — Kelp Bay Group
Greenschist and phyllite; graywacke, slate, and conglomerate; calcareous and quartzose slate; interbedded siliceous greenschist and argillite, massive volcanic rocks; and bedded chert
Ŧrkj, *jasper-bearing beds*

PALEOZOIC(?) AND (OR) MESOZOIC(?)

MzPz — Sedimentary and metamorphic rocks undivided

UNCONFORMITY?

PALEOZOIC(?)

Pzn, Pznm, Pznv — Nakwasina Group
Metachert, volcanic rocks, greenstone, and argillite; small amounts of graywacke, phyllite, calcareous siltstone, schist, and amphibole hornfels
Pznm, *marble lenses and layers*
Pznv, *scoriaceous and calcareous volcanic breccia*

UNCONFORMITY?

Pzg, Pzm — Gneiss and schist
Gneiss and schist containing quartz, feldspar, mica, amphibole, and garnet
Pzm, *marble and calc-silicate rock*

Pza, Pzc — Amphibolite and metachert
Granular hornblende-plagioclase rock
Pzc, *bedded metachert and subordinate marble*

Unmapped area

Contact
Dashed where approximately located, short dashed where inferred, dotted where concealed

60 90
Fault or shear zone, showing relative movement and dip
Dashed where approximately located; short dashed where inferred; dotted where concealed

65
Reverse fault, showing dip

Conspicuous lineament
Probably bedding or contact. Interpreted from aerial photographs

Overturned anticline
Showing trace of axial plane, direction of dip of limbs, and bearing of axis. Plunge unknown. Dotted where concealed

Overturned syncline
Showing trace of axial plane, direction of dip of limbs, and bearing of axis. Plunge unknown. Dotted where concealed

65
Bearing and plunge of overturned small fold

65
Plunge of minor anticline

5
Plunge of fold axis
Beds too tightly folded to show individual folds separately. May be combined with bedding or foliation symbols

Horizontal fold axis

25 15
Strike and dip of axial plane of small fold and bearing and plunge of axis

5
Strike of vertical axial plane of small fold and plunge of axis

60
Bearing and plunge of lineation
Point of observation at base of arrow. Includes striations, grooves, mineral alinement, boudinage, mullions, bedding-cleavage intersections; excludes fold axes. May be combined with bedding or foliation symbols

35
Strike and dip of beds

30
Strike and dip of beds
Top of beds known from sedimentary structures

85
Strike and dip of overturned beds

85
Strike and dip of overturned beds
Top of beds known from sedimentary structures

Strike of vertical beds

Strike of vertical beds
Top of beds known from sedimentary structures

Horizontal beds

75
Strike and dip of foliation

Strike of vertical foliation

85
Strike and dip of cleavage

Strike of vertical cleavage

50
Strike and dip of joint or joint set

Strike of vertical joint or joint set

SELECTED COMBINED SYMBOLS

Strike of parallel vertical beds and foliation

Strike of parallel vertical beds and joints

80 65
Attitude of beds and foliation parallel in strike but differing in dip

65
Attitude of beds and foliation parallel in strike and dip

80
Attitude of beds and axial plane of small fold parallel in strike and dip

65
Strike and dip of bedding showing lineation which plunges parallel to bedding

60
Strike and dip of bedding showing small fold axis which plunges parallel to bedding

60
Strike and dip of foliation showing small fold axis which plunges parallel to foliation