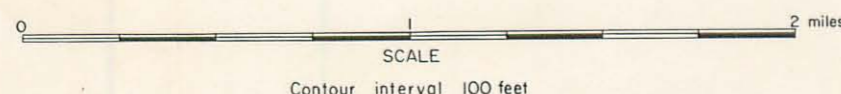


EXPLANATION

- QUATERNARY***
Soil moraine and alluvial deposits, glacial drift, sand, gravel, boulders. These denote for the most part with the lighter colored areas of the map.
- UNCONFORMITY**
- PREQUATERNARY***
DIABASE DIKES
[Symbol]
- INTRUSIVE CONTACT**
GRANITIC ROCKS
[Symbol]
quartz, orthoclase, perthite, quartz monzonite, quartz
- INTRUSIVE CONTACT**
BASIC PEGMATITE
[Symbol]
hornblende, plagioclase, pyroxene, feldspar
Individual dikes are mapped within the ultramafic rocks. Elsewhere only distribution of pegmatite is shown.
- INTRUSIVE CONTACT**
ULTRAMAFIC ROCKS
[Symbol]
hornblende, feldspar
Trend and dip of primary gabbro or rhythmic layering, top in direction of arrow.
[Symbol]
Trend and dip of vertical primary gabbro or rhythmic layering, top in direction of loop.
[Symbol]
Trend and dip of primary layering, direction of top not discernible.
[Symbol]
Strike and dip of joint swarm.
[Symbol]
Strike of swarm of vertical joints.
Contours
- INTRUSIVE CONTACT**
GABBROIC ROCKS
[Symbol]
pyroxene gabbro, olivine gabbro, anorthoclase, orthopyroxene gabbro, hornblende, olivine-bearing gabbro, aegirine hornblende gabbro, feldspar gabbro, unclassified, gabbro with flow of narrow doleritic gabbro.
- INTRUSIVE CONTACT**
METAMORPHIC ROCKS
[Symbol]
[Symbol]
[Symbol]
[Symbol]
[Symbol]
[Symbol]
[Symbol]
[Symbol]
[Symbol]
[Symbol]
[Symbol]
[Symbol]

GEOLOGY OF DUKE ISLAND
SOUTHEASTERN ALASKA
1957

GEOLOGY BY
T.N. IRVINE
ASSISTED IN MAPPING BY
H.H. SCHMITT AND B. BRAYCHAUDHURI



* The heavier colors on the map indicate rock outcrop and areas of rock outcrop. The lighter colors indicate the inferred extension of bedrock units beneath soil and glacial deposits.
Control and contours from U.S.G.'s topographic series, preliminary copy of the Prince Rupert Sheet, enlarged from 1:62,500. Details of shoreline and lakes modified by T.N. Irvine using vertical aerial photographs. Marine shoreline is extreme high tide.
Contour interval 100 feet
Control and contours from U.S.G.'s topographic series, preliminary copy of the Prince Rupert Sheet, enlarged from 1:62,500. Details of shoreline and lakes modified by T.N. Irvine using vertical aerial photographs. Marine shoreline is extreme high tide.