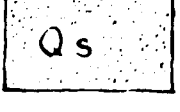


EXPLANATION

SURFICIAL DEPOSITS



Surficial Sedimentary deposits
(only larger areas shown)

VOLCANIC ROCKS



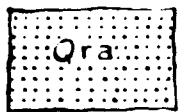
Andesitic rocks of Mt. Vesudof
(Basaltic andesite to latite flows;
andesitic to rhyodacitic pyro-
clastic beds)



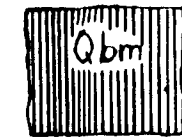
Quartz-bearing olivine andesite flow



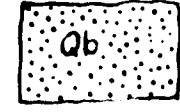
Recent volcanic rocks associated with minor vents
Qr, basalt, andesite, and rare latite flows with
vent debris, Qv, indicated by solid color within
circle
Qr, rhyolite domes



Hypersthene-bearing andesite
rocks of Mt. Rechesnoi



Porphyritic mafic basalt flows
(flows of satellite vents
on flanks of major vol-
canoes, includes minor areas
of vent complex)



Basaltic rocks of northeastern Umnak
(includes andesitic agglomerate and ash beds
of the Okmok formation, which mantles the
older basaltic rocks. Also includes very minor
vitreous andesite and probably latite plugs and necks)

METAMORPHIC AND PLUTONIC ROCKS



Metavolcanic, metasedimentary, and plutonic rocks
(Hydrothermally altered basaltic and andesitic rocks, silicified, potassium-metasomatized rocks, albitized
intrusives, hornophyres, bedded argillite and tuff, and diorite-granophyre complex. Includes
minor unaltered basic volcanic rocks, a few of which may be as young as early Quaternary.)

Probable fault

Strike and dip of beds

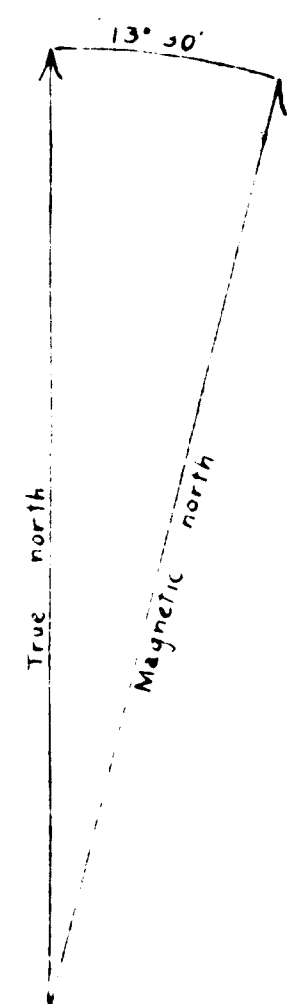
Strike of vertical beds

Horizontal beds

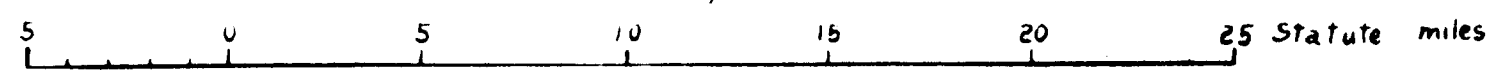
A, B, C, F

Letters designating cinder cones in Okmok caldera

2131 2255 2106
Ocean depths in fathoms



Scale 1/300,000 (approx)



Contour interval: 500 feet above sea level
100 fathoms (600 feet) below sea level

Base adapted after U.S. Coast and Geodetic Survey Chart 8861
Geology by T. M. Byers, Jr.

U. S. Geological Survey
OPEN FILE REPORT
This report is preliminary and has
not been edited or reviewed for
conformity with Geological Survey
standards or nomenclature.

PLATE I GENERALIZED GEOLOGIC MAP OF UMNAK AND BOGOSLOF ISLANDS AND VICINITY, SHOWING SUBMARINE TOPOGRAPHY