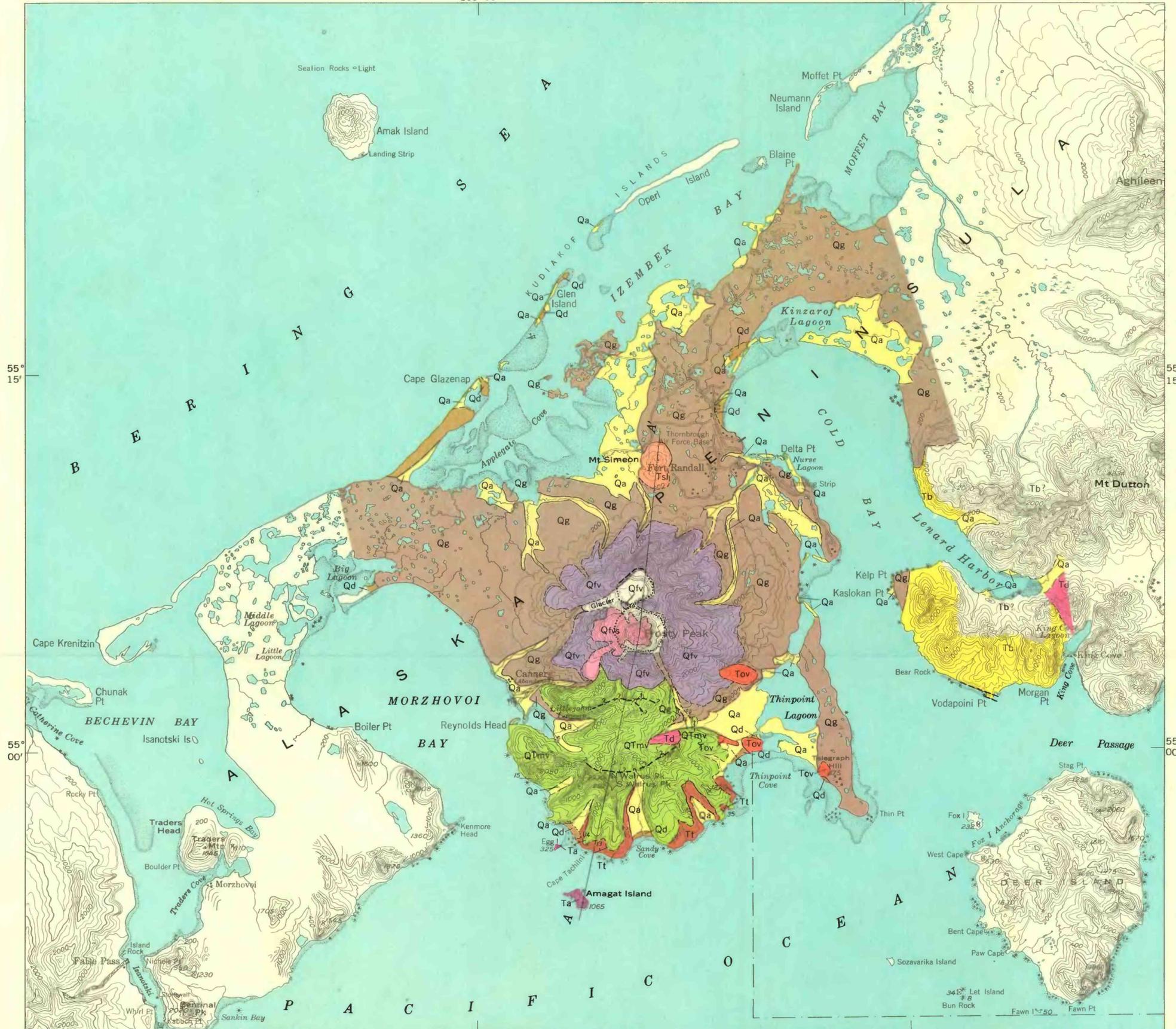


163°00'

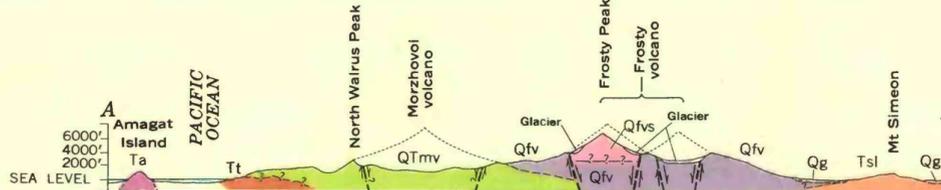
162°30'



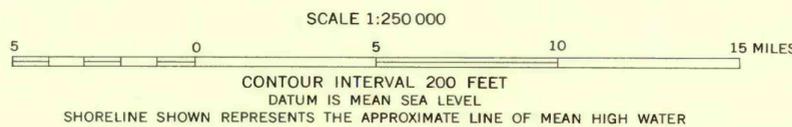
Base from U. S. Geological Survey 1:250,000
topographic quadrangles of Fort Randall,
1950 and False Pass, 1949

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C. 10190

Geology by H. H. Waldron, 1947



GEOLOGIC RECONNAISSANCE MAP AND SECTION OF FROSTY PEAK VOLCANO AND VICINITY



EXPLANATION

- Recent**
 - Quaternary**
 - Pleistocene**
 - Upper Tertiary**
 - Middle Tertiary**
 - Tertiary**
- Qa**
Alluvium
Recent stream and beach deposits of sand, silt, clay, and gravel
 - Qd**
Dune sand
Only larger deposits shown
 - Qg**
Glacial drift
Undifferentiated till and stratified drift
 - Qfvs**
Qfv
Frosty Peak volcanics
Light-gray porphyritic basalt flows and interbedded pyroclastic deposits. Qfvs, volcanic rocks of the summit cone
 - QTmv**
Morzhovoi volcanics
Porphyritic olivine basaltic lavas and interbedded pyroclastic deposits, and some volcanic sedimentary rocks
 - Tt**
Tachilni formation
Poorly consolidated marine sandstone, graywacke, grit and pebble conglomerate, and some black shale
 - Td**
Quartz diorite
Medium to coarsely crystalline quartz diorite stocks intruded into Belkofski tuff
 - Tb**
Belkofski tuff
Well-bedded basaltic tuff, agglomerate, and volcanic sedimentary rocks. Includes some interbedded basalt flows, and sills, dikes, and plugs of basalt and andesite

TERTIARY ROCKS WHOSE RELATIVE AGES ARE UNKNOWN

- Tsl**
Basalt flows of Mt. Simeon
Olivine basalt flows
 - Ta**
Hornblende-andesite plugs
 - Tov**
Volcanic rocks of Thinpoint Lagoon
Predominantly basaltic lapilli tuff, and some basaltic flows, breccia, and agglomerate
- Contact**
Dashed where approximately located
 - Indefinite, inferred or gradational contacts**
 - Inferred fault**
Dotted where concealed
 - Strike and dip of beds**
 - Inferred former profile of volcano shown in section A-A'**