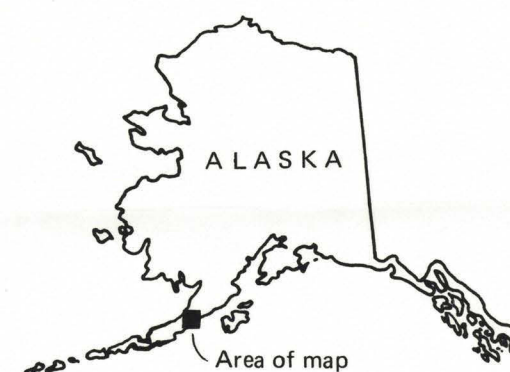
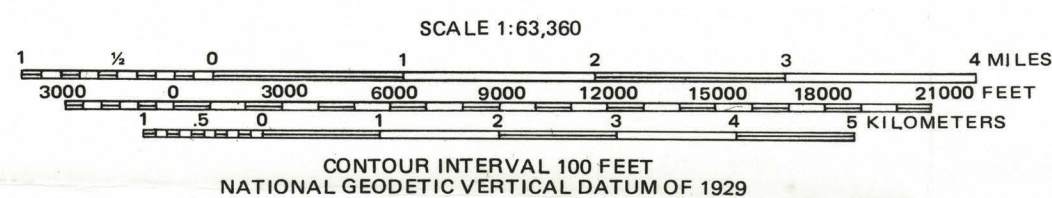
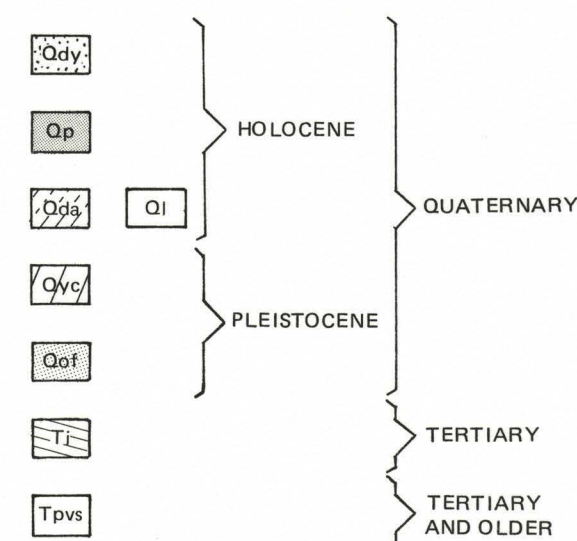


Base from U.S. Geological Survey
Sutwik Island D-4, Ugashik A-4, 1963.

Volcanic deposits mapped by T.P. Miller, 1981-82, 1985; J.R. Riehle, 1982-83, 1985; and M.E. Yount, 1981-83. Pre-Quaternary geology modified from Detterman and others (1981, 1983).



CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS VOLCANIC ROCKS

- Qdy** Dome of Yantarni Volcano—Porphyritic, two-pyroxene hornblende-bearing andesite.
- Qp** Pyroclastic-flow deposits—Crudely stratified beds ranging from moderately sorted blocks to poorly sorted block-and-ash deposits. Juvenile clasts have from 55 to 63 percent SiO₂.
- Qda** Debris-avalanche deposit—Chaotic assemblage of strongly altered volcaniclastic rocks assumed to have originally been part of Yantarni cone.
- Ql** Debris-avalanche deposit, now ablation till (?)—A poorly sorted assemblage of blocks having a hummocky surface with subarcuate ridges.
- Qvc** Deposits of Yantarni cone—Interbedded breccias, lava flows, and pyroclastic-flow deposits consisting dominantly of two-pyroxene andesite. Local fumarolic alteration.
- Qof** Older lava flows—Porphyritic, rarely vitrophyric two-pyroxene andesite.

INTRUSIVE ROCKS

- Tl** Shallow dikes, sills, and stocks composed of porphyritic, hornblende-bearing andesite and low-silica dacite.

SEDIMENTARY ROCKS

- Tpvs** Pre-volcanic sedimentary rocks, undifferentiated—Sandstone, siltstone, shale, and conglomerate of the Upper Jurassic and Lower Cretaceous Naknek and Stanikovich Formations and the Paleocene and Eocene Tolstoi Formation.

Contact
Dashed where approximately located

Thrust fault
Sawteeth on upper plate; dotted where extrapolated

Volcanic vent
Plug or dome

Dikes

Sample locality
Reference made to numbers in text

Direction of lateral blast (?) and landslide movement

Direction of pyroclastic-flow movement

GEOLOGIC MAP OF YANTARNI VOLCANO, ALASKA PENINSULA, ALASKA