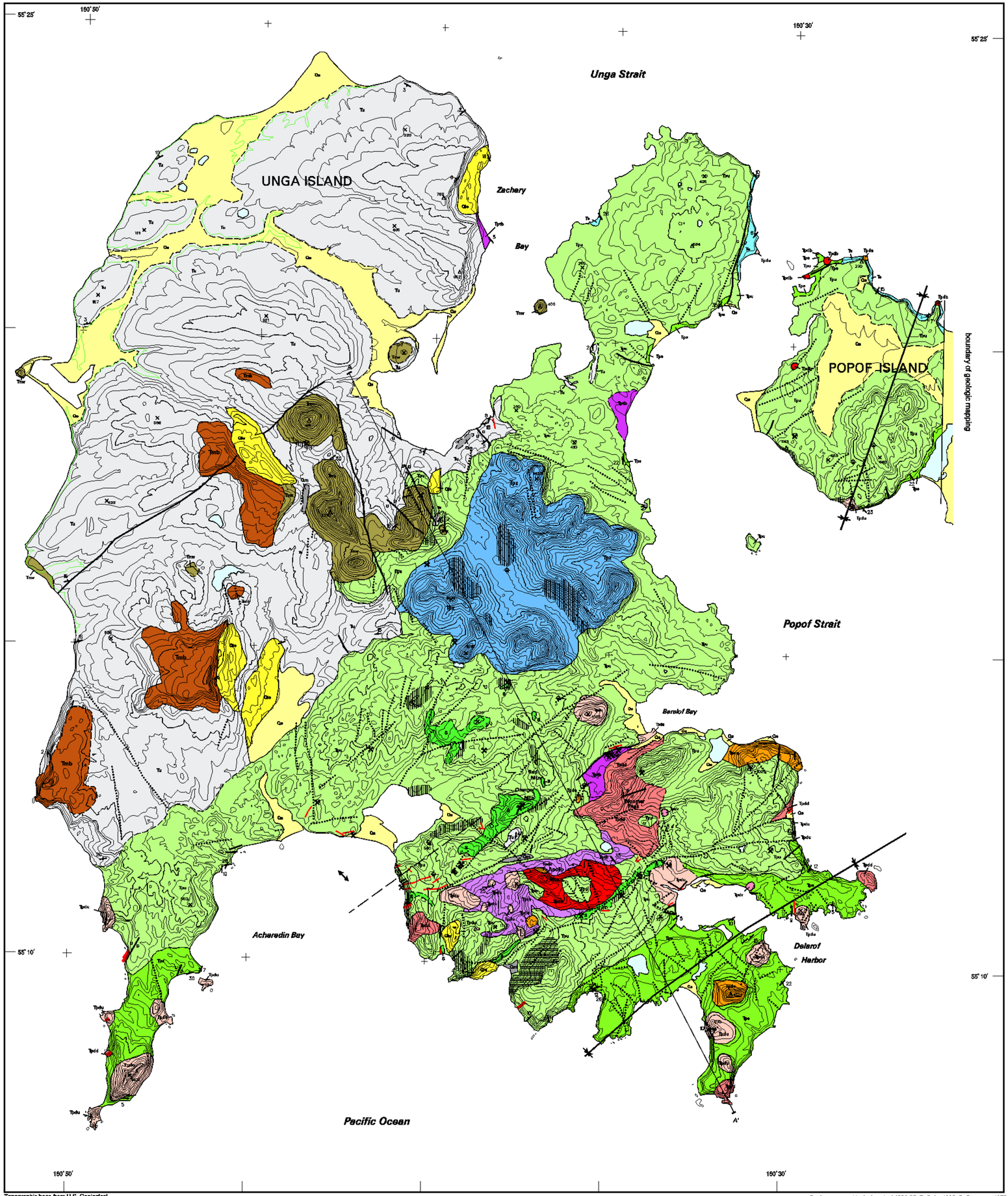
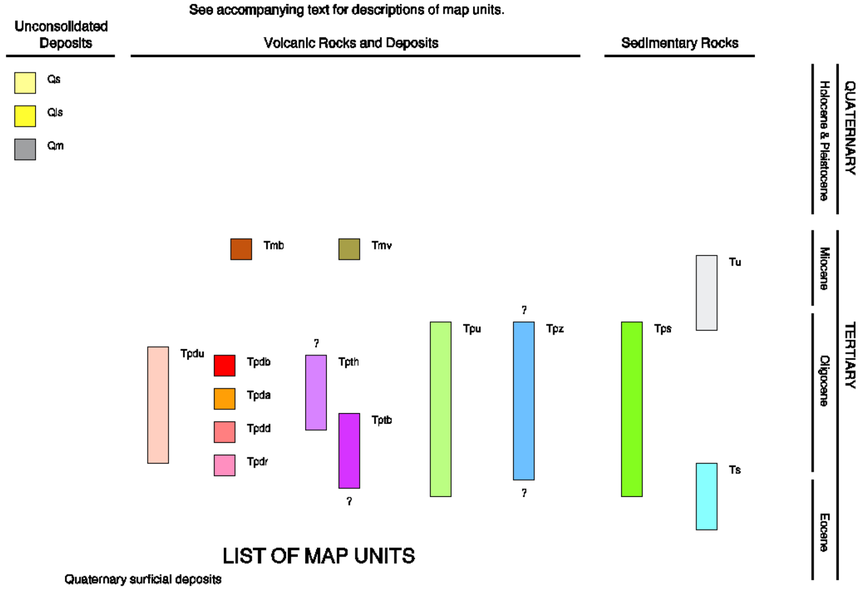


CORRELATION OF MAP UNITS

See accompanying text for descriptions of map units.



LIST OF MAP UNITS

Quaternary surficial deposits

- Qs — Colluvium, alluvium and beach deposits (Holocene)
- Qls — Landslide and talus deposits (Holocene)
- Qm — Glacial deposits (Pleistocene)

Tertiary volcanic rocks and deposits

- Tmb — Basalt flows (Miocene)
- Tmv — Volcanic rocks (Miocene)

Tertiary sedimentary rocks

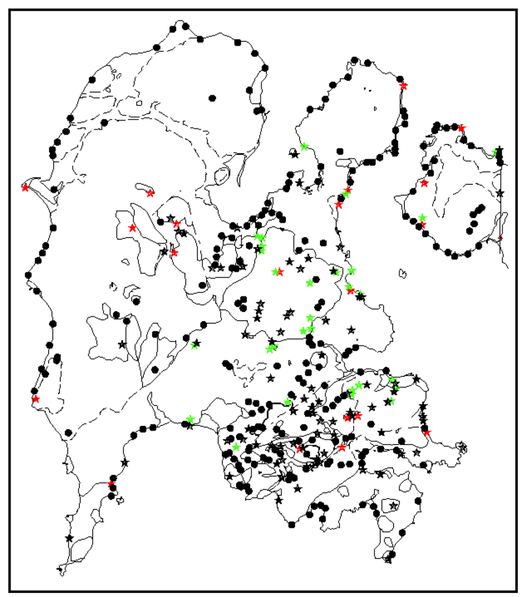
- Tu — Unga Formation (Miocene and Oligocene)
- Ts — Stepovak Formation (Eocene and Oligocene)

Popof volcanic rocks

- Tpdu — Domes, undifferentiated (Oligocene)
- Tpdb — Basaltic andesite domes
- Tpda — Andesitic domes
- Tpdd — Dacitic domes
- Tpdr — Rhyolitic domes
- Tpth — Hornblende tuff (Oligocene)
- Tptb — Biotite tuff (Oligocene)
- Tpz — Lavas of Zachary Bay (Tertiary)
- Tpu — Undifferentiated Popof volcanics (late Eocene to Oligocene)
- Tps — Volcaniclastic rocks (late Eocene to Oligocene)

EXPLANATION OF SYMBOLS

- Stratigraphic contact--dashed where inferred or approximately located
- Fault--"U" is upthrown block, "D" is downthrown block where known
- Lineament inferred from aerial photographs--many are probably faults having minor offset
- Topographic contour--interval 100 feet except partial 50-ft contour along NW coast of Unga Island shown in green. Heavy contour at 500-ft intervals.
- Attitude of bedding in stratified rocks
- Axis of syncline
- Axis of anticline--dashed where existence uncertain
- Area of intense alteration--
  - chiefly quartz and iron oxidation (gossan)
  - quartz, kaolinite, and pyrite (argillic)
  - S — area of thorough replacement by silica
- Intrusive dike--strike at site shown by orientation
- Quartz veins--strike at site shown by orientation
- Lake or pond
- Drill hole
- Mine
- Significant prospect or exploratory pit; some have drill holes



Index showing field stations occupied by U.S.G.S. during 1979 and 1983-89, overlain on outline of geologic units.

- Field station, no analyzed sample
- Chemistry and K-Ar age sample
- thin-section evidence for potassium alteration
- chemistry sample

Topographic base from U.S. Geological Survey Port Moller A2, A3, B2 (1983) and B3 (1983) quadrangles. Even small islands that are not geologically mapped are included for physiographic reference.

Scale 1:63,360

0 4 kilometers

0 4 miles

Geology mapped by L. Angeloni 1983-85; D. Bohn 1986; B. Carpenter 1979; C. Connor 1982; R. Dettermen 1982-85; C. Dickey 1988; G. DuBois 1985; G. McGimsey 1989; J. Miller 1982-85; M. Pemokas 1983; J. Riehle 1979, 1988-89; N. Shew 1982; R. Updike 1979; F. Weber 1985; F. Wilson 1982-85; W. White 1988-89; M. Yount 1982-85.

Map reviewed by Dwight Bradley

TRUE NORTH / MAGNETIC NORTH 18° N

APPROXIMATE MEAN DECLINATION, 1983

GEOLOGIC MAP of UNGA ISLAND and the northwestern part of POPOF ISLAND, ALASKA

by J.R. Riehle, F.H. Wilson, N. Shew, and W.H. White

1998