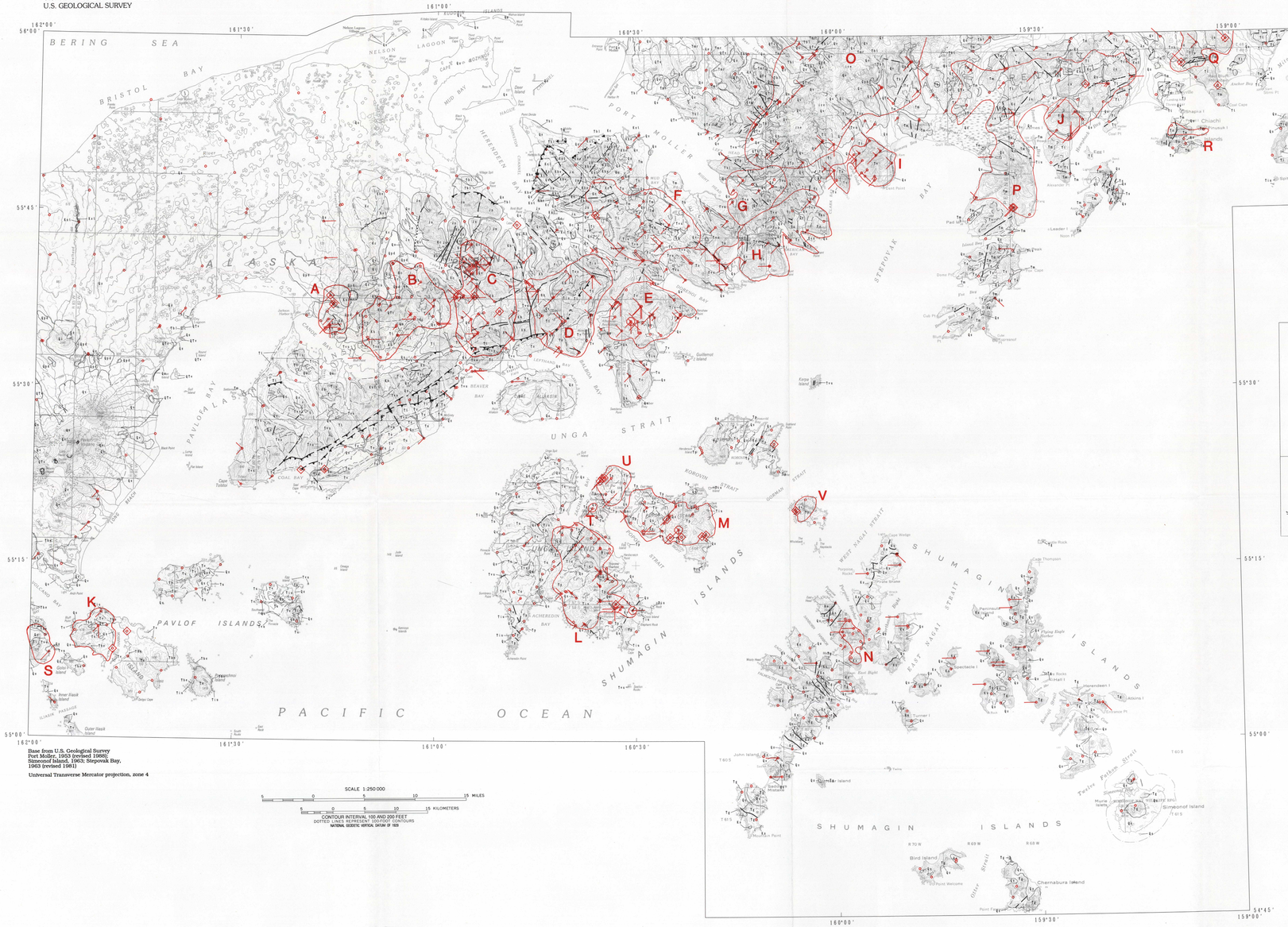
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-2155-C
SHEET 3 OF 3



Base from U.S. Geological Survey
Port Moller, 1953 (revised 1988);
Simeonof Island, 1963; Stepovak Bay,
1963 (revised 1981)

Universal Transverse Mercator projection, zone 4

SCALE 1:250 000

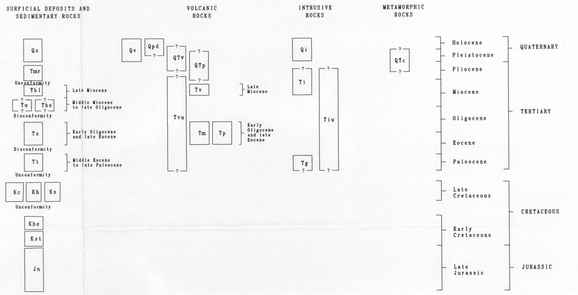
5 0 5 10 15 MILES
5 0 5 10 15 KILOMETERS

CONTOUR INTERVAL 100 AND 200 FEET
DOTTED LINES REPRESENT 100-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Geology from Wilson and others (1991)

Manuscript approved for publication March 15, 1991

CORRELATION OF MAP UNITS



LIST OF MAP UNITS

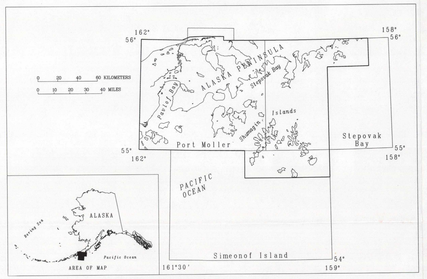
Qs	Surficial deposits (Holocene and Pleistocene)
Qv	Volcanic rocks (Holocene and Pleistocene)
Qi	Younger intrusive rocks, undivided (Holocene and Pleistocene)
Qpd	Pyroclastic and debris-flow deposits (Holocene and late Pleistocene?)
QTc	Contact-metamorphosed rocks (early Quaternary or late Tertiary)
QTv	Volcanic rocks, undivided (Quaternary and Pliocene?)
QTp	Pyroclastic deposits (Pleistocene? and Pliocene)
Tmr	Milky River Formation (Pliocene)
Ti	Older intrusive rocks, undivided (Pliocene and late Miocene)
Tbl	Bear Lake Formation (late Miocene)
Tv	Volcanic rocks (late Miocene)
Tu	Unga Formation (middle Miocene to late Oligocene)
Tbe	Belkofski Formation (middle and early Miocene? and late Oligocene?)
Ts	Stepovak Formation (early Oligocene and late Eocene)
Tm	Meshik Volcanics (early Oligocene and late Eocene)
Tp	Popof volcanic rocks (early Oligocene and late Eocene)
Tt	Tolstoi Formation (middle Eocene and late Paleocene)
Tg	Granitic rocks (Paleocene)
Tvu	Volcanic rocks, undivided (Tertiary)
Tiu	Intrusive rocks, undivided (Tertiary)
Kc	Chignik Formation (Late Cretaceous)
Kh	Hoodoo Formation (Late Cretaceous)
Ks	Shumagin Formation (Late Cretaceous)
Khe	Herendeen Formation (Early Cretaceous)
Kst	Staniukovich Formation (Early Cretaceous)
Jn	Naknek Formation (Late Jurassic)

Contact– Dashed where approximately located

Fault–Dashed where approximately located; dotted where concealed

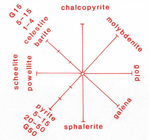
Thrust fault–Sawteeth on upper plate; dashed where approximately located

Volcanic crater



INDEX MAP SHOWING PORT MOLLER, STEPOVAK BAY, AND SIMEONOF ISLAND 1:250,000-SCALE QUADRANGLES AND STUDY AREA, ALASKA PENINSULA

EXPLANATION



Mineralogic sample site–Vector diagram centered around sample locality showing distribution of eight selected minerals or mineral pairs. Each vector of the eight-rayed star diagram represents a specific mineral or mineral pair: pyrite and barite, length of vector indicates concentration. Concentrations of these minerals in the samples are reported in percent. The presence of fluorite is indicated by octagonal symbols and the presence of cinnabar is indicated by diamond-shaped symbols. The letter G indicates greater than.

MAP C. ANOMALOUS CONCENTRATIONS OF CHALCOPYRITE, CINNABAR, FLUORITE, MOLYBDENITE, GOLD, GALENA, SPHALERITE, PYRITE, POWELLITE, SCHEELITE, BARITE, AND CELESTITE IN NONMAGNETIC HEAVY-MINERAL CONCENTRATES

MAPS SHOWING THE DISTRIBUTION OF ANOMALOUS CONCENTRATIONS OF SELECTED ELEMENTS AND MINERALS DETERMINED IN NONMAGNETIC HEAVY-MINERAL CONCENTRATES FROM THE PORT MOLLER, STEPOVAK BAY, AND SIMEONOF ISLAND QUADRANGLES, ALASKA PENINSULA, ALASKA

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