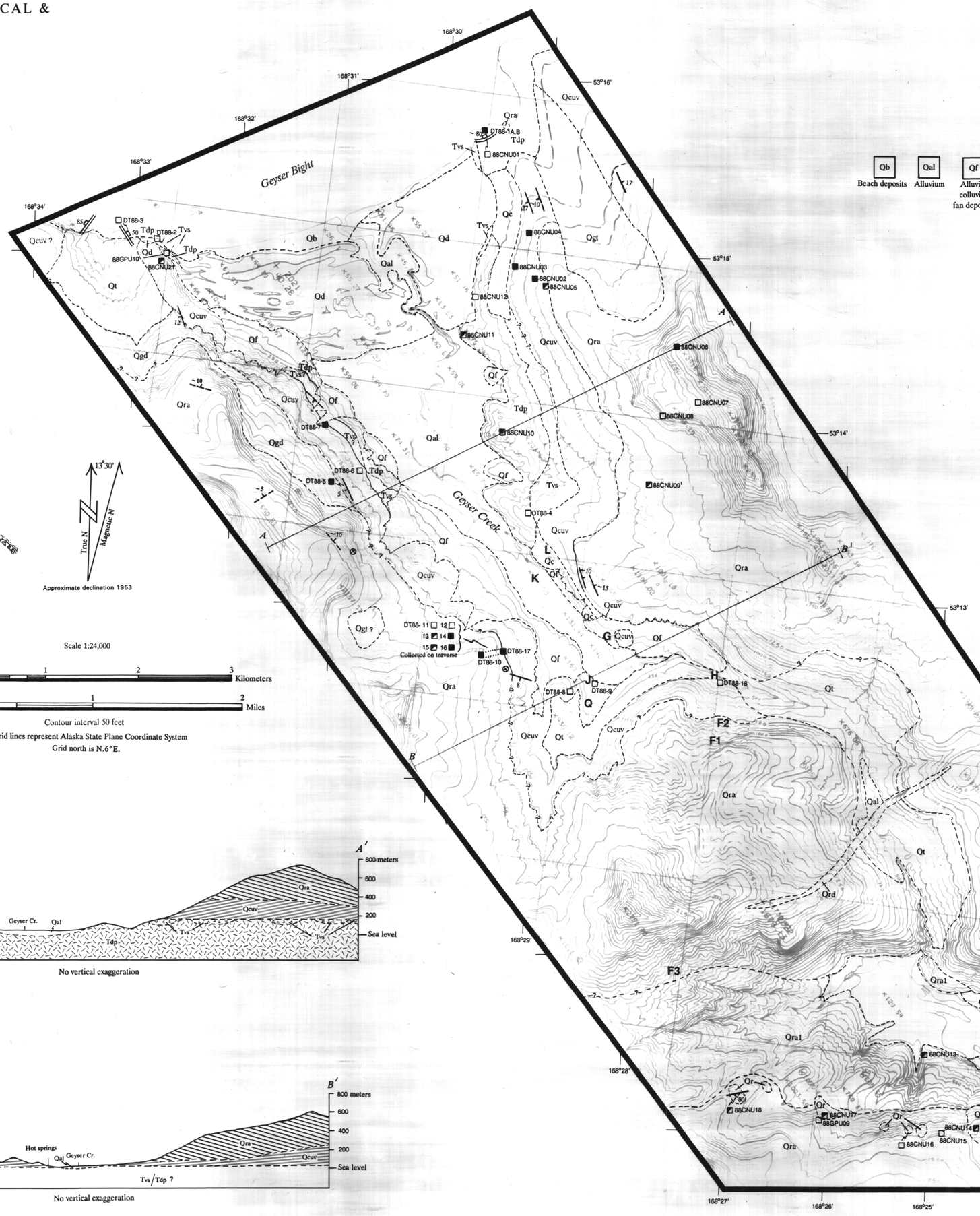
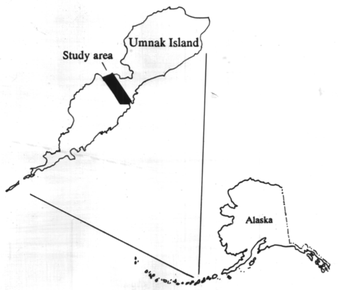
ALASKA DIVISION OF GEOLOGICAL &
GEOPHYSICAL SURVEYS

REPORT OF INVESTIGATIONS 92-1
Nye and others (1992), sheet 1 of 2





Approximate declination 1953

Scale 1:24,000

0 1 2 3 Kilometers

0 1 2 Miles

Contour interval 50 feet

Grid lines represent Alaska State Plane Coordinate System

Grid north is N.6°E.

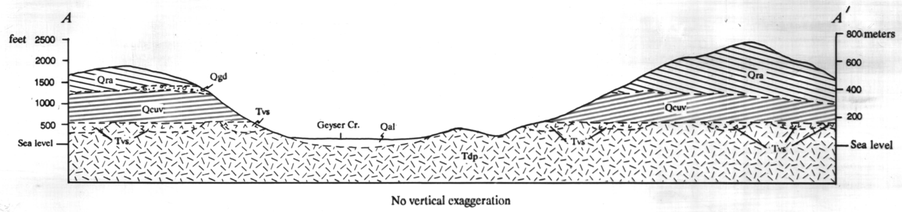
EXPLANATION

- Qb — Beach deposits
- Qal — Alluvium
- Qf — Alluvial-colluvial fan deposits
- Qc — Colluvium
- Qt — Tephra
- Qd — Dune sand
- Qgt — Till
- Qr — Rhyolite
- Qrd — Dikes
- Qra1 / Qra — Lava flows and fragmental flows of Mt. Recheshnoi: Qra forms glacial valleys, Qra1 fills glacial valleys
- Qgd — Glacial drift
- Qcuv — Lava flows and pyroclastic flows of central Umnak
- Unconformity
- Tdp — Quartz monzonite and quartz diorite
- Tvs — Fine grained sedimentary rocks and mafic volcanic rocks

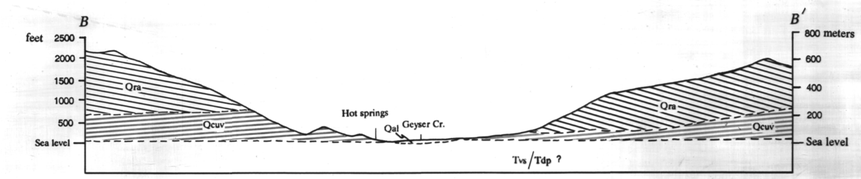
HOLOCENE
LATE PLEISTOCENE
MIDDLE PLEISTOCENE
EARLY PLEISTOCENE
LATE MIOCENE
LATE EOCENE TO EARLY OLIGOCENE

Contact, dashed where approximately located
Strike and dip of layered rocks
Estimated strike and dip of layered rocks
Strike and dip of foliation
Strike and dip of dikes
Horizontal, layered rocks

F — Fumarole-field location
G-Q — Hot-springs and geyser-field location
Sample locality
Geochemical sample locality
K-Ar sample locality
Geochemical and K-Ar sample locality



No vertical exaggeration



No vertical exaggeration

GEOLOGIC MAP AND CROSS SECTIONS OF GEYSER CREEK VALLEY AND VICINITY UMNAK ISLAND, ALASKA

by

Christopher J. Nye, Roman J. Motyka, Donald L. Turner and Shirley A. Liss

1992

Geology by C.J. Nye, D.L. Turner and E.A. Pavia, 1988. Cartography by R. Cottrell. Base map by North Pacific Aerial Surveys, 1988.