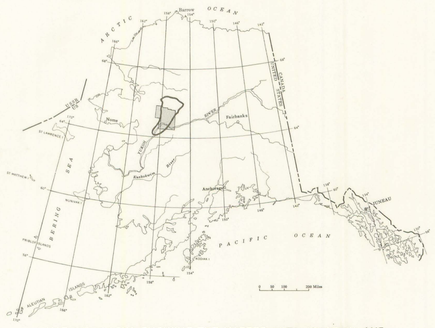
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

MISCELLANEOUS GEOLOGIC INVESTIGATIONS
MAP I-590 (SHEET 1 OF 2)



MAP OF ALASKA SHOWING THE MAPPED AREA (SHADED) AND THE GENERAL OUTLINE OF THE YUKON-KOYUKUK LOWLAND

EXPLANATION

SEDIMENTARY ROCKS

Pleistocene or Holocene

Qa4, Qa3, Qa2, Qa1 — Floodplain alluvium
Qa4, *linear phase*
Qa3, *advanced linear phase*
Qa2, *coalescent phase*
Qa1, *scalloped phase*

Qty, Qto — Terrace deposits
Qty, *younger (low) terrace deposits*
Qto, *older (high) terrace deposits*

Pliocene(?)

Tc — Conglomerate, sandstone, and siltstone

Lower and Upper Cretaceous

Ks — Sandstone, graywacke, clay shale, conglomerate, and coal

Qag, Qas — Tributary alluvium
Qag, *gravel, sand, and silt*
Qas, *silt and sand*

Qs, Qsc — Sand deposits
Qs, *primarily dune cover*
Qsc, *thin sandy colluvial and mantle deposits*

Qaf — Alluvial and colluvial fan deposits
Silt, sand, rock fragments, and talus deposits

Qlc — Loess and colluvium
Silt and rock rubble

QUATERNARY

TERTIARY(?)

CRETACEOUS

IGNEOUS ROCKS

TKi — Intrusive rocks
Acidic or intermediate composition

KJe — Extrusive rocks
Andesite, basalt, tuff, agglomerate, and breccia. Locally includes minor amounts of sedimentary rocks

CRETACEOUS AND (OR) TERTIARY

JURASSIC AND CRETACEOUS

Contact, approximately located

Fault
Dashed where approximately located

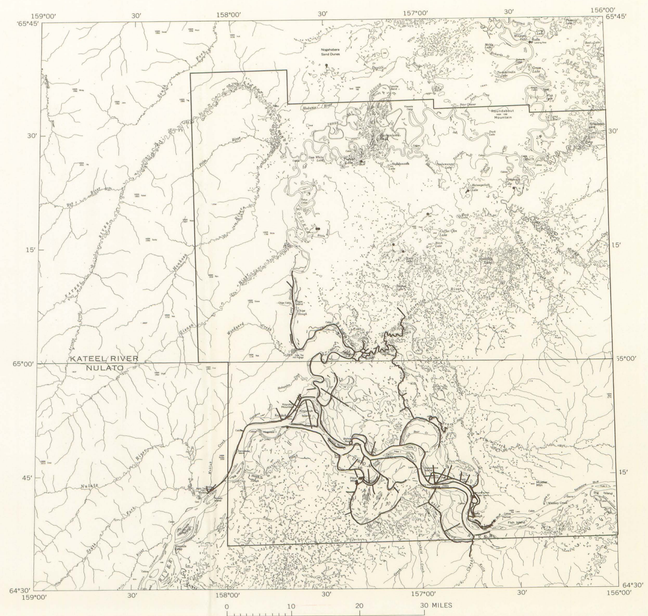
Ice-wedge polygons

Fossil locality
Quaternary vertebrates and invertebrates

A — Mechanical analysis sample site
Letter refers to analyses curves on sheet 2

1 — Site of subsurface data
1 Campion water well 1
2 Campion water well 2
3 Galena water well 1

Site of diagrammatic profile



MAP OF PARTS OF THE KATEEL RIVER AND NULATO QUADRANGLES SHOWING LOCATIONS OF CONTINUOUS FOOT TRAVERSES AND FIELD OBSERVATION POINTS OF SURFICIAL DEPOSITS, 1946–1962. THE AREA OUTLINED WAS COMPLETELY MAPPED BY PHOTOGEOLOGIC METHODS

Base from U.S. Geological Survey, 1:250,000
Kateel River, 1955 and Nulato, 1952

SCALE 1:125 000
2 0 2 4 6 8 10 MILES
2 0 2 4 6 8 10 KILOMETERS
FEET
CONTOUR INTERVAL 5 FOOT CONTOURS
DASHED LINES REPRESENT SEA LEVEL
DATUM IS MSL
1969 MAGNETIC DECLINATION FOR SHEET VARIES FROM 22° TO 23°30' EAST

Geology by R. S. Bickel, 1955–57;
J. T. Cass, 1957; T. L. Péwé, 1946–62;
W. W. Patton Jr., 1956–66; Bond Taber, 1958;
A. R. Tagg, 1960; F. R. Weber, 1961–62

SURFICIAL AND ENGINEERING GEOLOGY OF THE CENTRAL PART OF THE YUKON-KOYUKUK LOWLAND, ALASKA

By
Florence R. Weber and Troy L. Péwé

1970

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For sale by U.S. Geological Survey, price $1.25 per set