

**EXPLANATION**

**SURFICIAL DEPOSITS**

- Qyf** Young flood-plain deposits  
Mostly silt and sandy silt on sand dunes. Includes gravel and boulders in and near mountains.
- Qyb** Young beach deposits  
Marine silt and sandy silt; includes young flood-plain and estuarine deposits along streams.
- Qob** Old beach deposits  
Marine silt and sandy silt forming old beach ridges.
- Qof** Old flood-plain deposits  
Silt, sandy silt, and bog deposits.
- Qoa** Old alluvial deposits  
Mostly silt and sandy silt on the delta with sand and gravel at depth. Includes terraces and fan gravel and colluvial deposits in and near mountains.

**BEDROCK**

- Qb** Basalt  
Horizontal basalt flows and associated volcanic centers.
- Ki** Intrusive rhyodacite and dacite  
Light to medium-gray, fine-grained, porphyritic rhyodacite and dacite; forms mostly dikes and large sill-like bodies.
- Kcs** Noncalcareous sandstone  
Mostly interbedded fine- to medium-grained gray, non-calcareous sandstone and siltstone. Largely nonmarine with some marine tongues. Biotite-hypersthene hornfels indicated by hachured-overprint.
- Kca** Calcareous sandstone  
Mostly fine to medium-grained gray, highly calcareous, thin-bedded sandstone interbedded with noncalcareous siltstone with calcareous concretions.
- Kls** Laumontitized sandstone  
Mottled or spotted medium- to dark-gray to nonmottled sandstone interbedded with equal or greater amount of siltstone and sandstone containing little or no laumontite.
- Kjv** Volcanic rocks  
Dark-gray and green andesitic flows, volcaniclastic rocks, and minor interbedded graywacke.

**Geological Symbols:**

- Contact: Dashed where approximately located or inferred; dotted where concealed.
- Fault, showing relative horizontal movement: Dashed where approximately located or inferred; dotted where concealed.
- Anticline: Showing trace and plunge of axial plane.
- Asymmetric anticline: Showing trace and plunge of axial plane.
- Syncline: Showing trace of axial plane.
- Plunge of minor anticline.
- Plunge of minor syncline.
- Strike and dip of beds: Probably includes some overturned beds.
- Strike of vertical beds.
- Strike and direction of dip of beds determined either by photo interpretation or from a distance.
- Prominent bedding trace.
- Volcanic center: \* M1175.
- Fossil locality: o M1175.
- Numbers indicate collection number.

Base from Army Map Service 1:250,000 series: Kwiguk, 1952; Black, 1951. Geology mapped in 1961, 1963 assisted by Richard White in 1960 and N. W. Rutter in 1961.

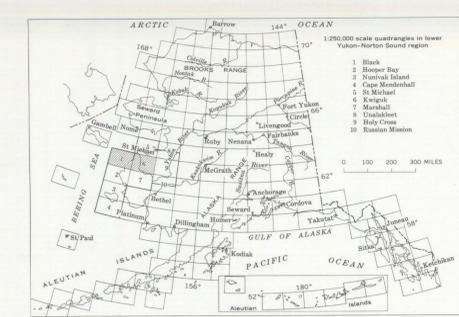
**GEOLOGIC MAP OF THE KWIGUK AND BLACK QUADRANGLES, WESTERN ALASKA**

By  
**J. M. Hoare and W. H. Condon**



SCALE 1:250 000  
CONTOUR INTERVAL 100 FEET  
SUPPLEMENTAL CONTOUR INTERVAL 50 FEET  
DATUM IS MEAN SEA LEVEL  
DEPTH CURVES IN FEET—DATUM IS MEAN LOWER LOW WATER

1966



**INDEX MAP OF ALASKA**  
Location of the Kwiguk and Black quadrangles relative to the lower Yukon-Norton Sound region.