

EXPLANATION

UNCONSOLIDATED SEDIMENTARY DEPOSITS

The units listed below overlap in age and therefore are not arranged in stratigraphic order

- Qs**  
Surficial deposits  
Mainly glacial drift and fluvial gravel, sand, and mud. Includes lagoon and tidal-sedimentary deposits at present and former shorelines.
- Qgl**  
Glacial moraine deposits  
Undifferentiated deposits of one or more glacial advances; mainly till, but includes lake and glacio-fluvial deposits. Arrows indicate direction of ice movement as inferred from trend of elongate ridges and trenches.
- Qsp**  
Marine shoreline deposits  
Mainly sand, gravel in place. Includes beach and beach-ridge deposits associated with present shoreline. Qst, beach, beach-ridge and spit deposits associated with former shorelines.
- Qes**  
Eolian sand  
Deposits with sparse vegetation cover, associated with present shoreline.

BEDROCK

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**Yakutat Formation**  
Sandstone and siltstone interbedded with massive conglomeratic sandy mudstone (3000') in upper part; mainly sandstone and siltstone in lower part; marine.

LOCAL UNCONFORMITY

**Pull Creek Formation**  
Siltstone with many small to lenticular limestone concretions and sandstone in part glauconitic beds of water-laid volcanic breccia and tuff in lower part; marine.

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**Kulthoth Formation**  
Sandstone, in part argillite. Interbedded with siltstone and many thin beds of coal, nummulites and marine. As mapped, unit may locally include basal part of Pull Creek Formation.

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**Crystalline complex**  
Undifferentiated metamorphic and intrusive rocks.

UNCONFORMITY

**Yakutat Group**  
Gneiss, argillite, and slate; marine.

UNCONFORMITY

**Volcanic rocks**  
Lava with minor pyroclastic deposits; bedding visible in aerial photographs. Includes small bodies of intrusive igneous rocks.

UNCONFORMITY

**Sedimentary rocks, undifferentiated**  
Sandstone and siltstone, locally conglomeratic and coal-bearing; marine and nonmarine.

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GEOLOGIC MAP OF THE YAKATAGA DISTRICT, GULF OF ALASKA TERTIARY PROVINCE, ALASKA

By  
Don J. Miller  
1971

- BASE MAP COMPILED FROM**
1. U.S. Geological Survey topographic maps of Bering Glacier A-2, A-3, A-4 and Icy Bay D-2 and D-3 (1951) quadrangles. From aerial photographs taken in 1948.
  2. Planimetry by stereoplotters and stereoplotters from aerial photographs taken in 1946 (area 2A), 1948 (area 2B), 1954 (area 2C), and 1957 (area 2D).
  3. U.S. Geological Survey topographic map of Bering Glacier (1951) quadrangle, revised by photostereoscopic projection methods from oblique aerial photographs taken in 1938 (area 3A) and 1946 (area 3B), and from vertical aerial photographs taken in 1957 (area 3C).
- Hydrography from U.S. Coast and Geodetic Survey chart

- GEOLOGY COMPILED FROM**
1. Bedrock geology from field mapping by D. J. Miller and others, 1944-1953, generalized by Miller, U.S. Geological Survey map I-610, 1971. Landforms and Quaternary unconsolidated deposits from photointerpretation and the field mapping.
  2. Field mapping by D. J. Miller, R. B. Johnson, George Plafker, and E. E. Brash, 1946-1953, 1959, supplemented by photointerpretation.
  3. Photointerpretation, supplemented by field mapping by D. J. Miller in 1946 and 1953.

