

**EXPLANATION**  
Surficial deposits of the Anchorage area, Alaska, exclusive of windblown sand and silt

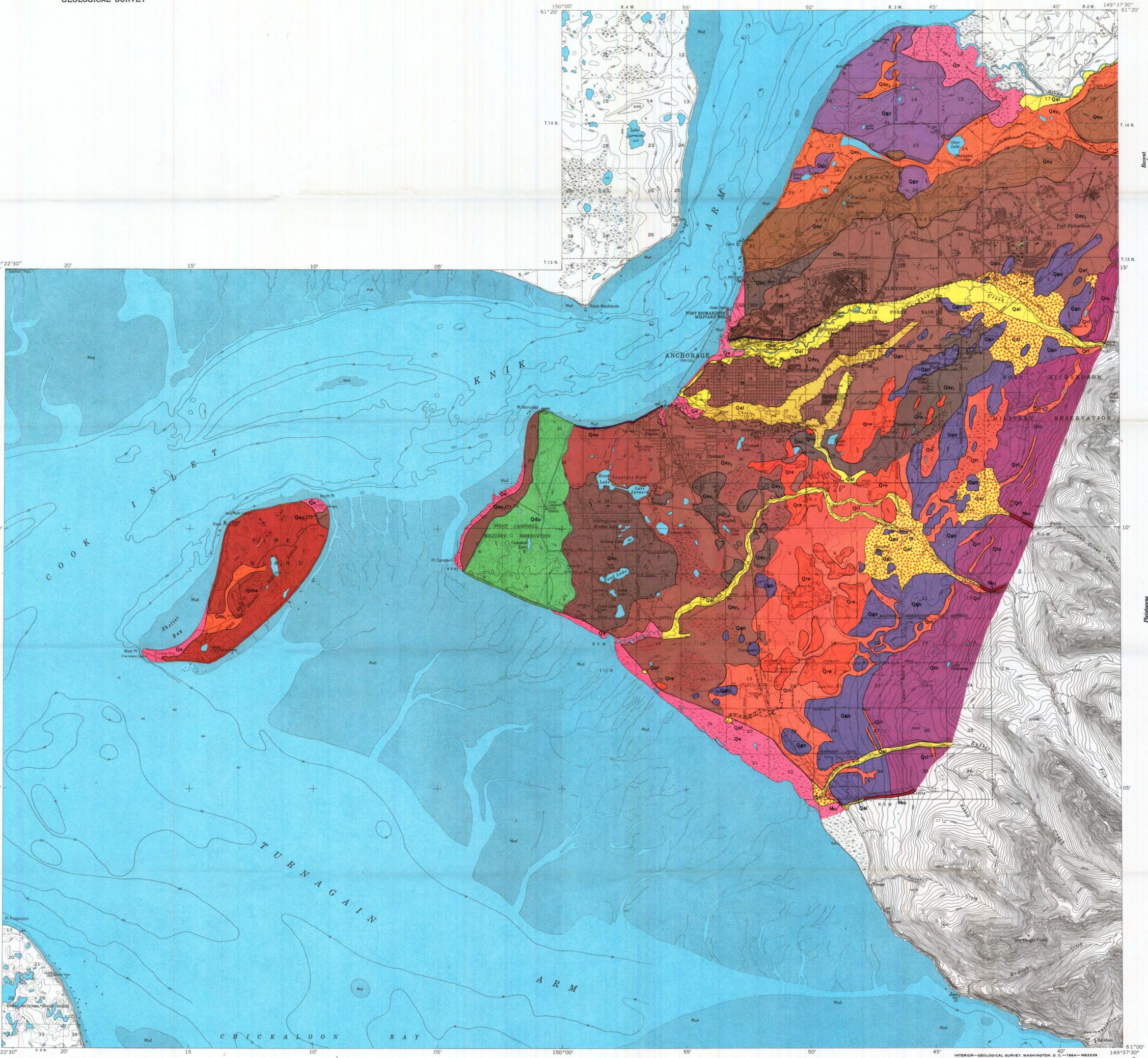
**SEDIMENTARY ROCKS**

- Qe**  
Postglacial estuarine deposits  
Clay and silt, locally sand and gravel; beside and in Knik and Turnagain Arms (deposits on narrow benches not mapped); postglacial and, in part, modern. Not a water-bearing formation
- Qai**  
Bog deposits  
Peat; chiefly postglacial, in part modern. Not a water-bearing formation
- Qal**  
Stream deposits  
Sand and gravel, locally silty or clayey; in channels, valley floors, and low terraces of streams on the lowland, chiefly postglacial. May yield small quantities of water to shallow wells
- Qaf**  
Alluvial-fan deposits  
Sand and gravel, locally silty and clayey; glacial and postglacial. May be a good water-bearing formation in some places
- Qay<sub>2</sub>**  
Younger outwash-stream deposits, of late-recessional age  
Sand and gravel; chiefly north of end moraine, Qey; deposited during recession of ice from that moraine by meltwaters of the Eagle and Knik-Matanuska Glaciers. May yield small supplies of water to shallow wells in some places
- Qey**  
Younger ground-moraine deposits  
Till and glaciomarine drift, locally mantled by sand and gravel; north of end moraine. Qey, with which they are in part contemporaneous. May yield small supplies of water from gravelly beds
- Qey<sub>2</sub>**  
Older outwash-stream deposits, later phase  
Sand and gravel; outwash plain of Eagle and Knik-Matanuska Glaciers formed during last glaciation of Anchorage area; yield small to moderately large quantities of water to shallow dug and drilled wells in Mountain View but finer grained and a poor water-bearing formation to the west and south
- Qey**  
End-moraine deposits of Knik-Matanuska Glacier  
Till, water-laid "till," and outwash-stream deposits; formed during last glaciation of Anchorage area. Poor water-bearing formation
- Qme**  
End-moraine deposits, Fire Island  
Till, water-laid "till," and outwash-stream deposits; may be correlative with end-moraine deposits of Knik-Matanuska Glacier, Qey. Yield moderate supplies of water from gravelly beds
- Qoy<sub>2</sub>**  
Older outwash-stream and lake(?) deposits, earlier phase  
Sand, silt, and gravel; combined outwash plain of Eagle, Knik-Matanuska(?) and Turnagain Arm Glaciers formed during last glaciation of Anchorage area; may include lake deposits. Yield small quantities of water to shallow wells
- Qeo**  
Estuarine and lake(?) deposits  
Boottlegger Cove Clay; clay and silt, containing sporadic beds of sand and gravel. Finer elements yield little or no water, but in a few places coarse materials are present which yield moderate to large quantities of water to wells
- Qdu**  
Glacial drift, undifferentiated  
Outwash-stream and lake deposits west of International Airport, thought to be contemporaneous with units Qe and Qgo; till or till-like material present locally. Apparently does not contain water
- Qri**  
Glacial-recessional deposits, later phase  
Sand and gravel, in part silty and clayey; chiefly in melt-water drainage courses that indicate older deposits; include deposits graded to several different temporary base levels. Yield small quantities of water to shallow wells
- Qre**  
Glacial-recessional deposits, earlier phase  
Sand and gravel and till; largely in pitted and other ice-contact features, undifferentiated; locally thin, covering ground-moraine deposits, Qgo. Yield small quantities of water from sandy or gravelly beds
- Qgo**  
Older ground-moraine deposits  
Till, locally mantled by sand and gravel; probably include some outwash-stream deposits, not differentiated. Yield small to moderate quantities of water from gravelly lenses
- Qlo**  
Lateral glacier-margin deposits of older glaciation  
Lateral-moraine and kame-terrace deposits, in part pitted, undifferentiated. Yield small quantities of water from gravelly lenses

**METAMORPHIC ROCKS**

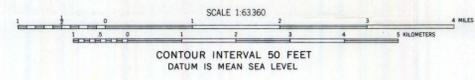
- Mu**  
Metamorphic rocks of igneous and sedimentary origin: greenstone, graywacke, argillite, and slate

--- Contact  
Dashed where approximate, dotted where placed arbitrarily  
--- River terrace  
Dashed where approximate; hachures point down scarp



**GEOLOGIC MAP OF THE ANCHORAGE AREA, ALASKA**

Base from U.S. Geological Survey topographic quadrangles



INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1964—W6339  
Geology by F. W. Trainer. Bedrock outcrops in part after Miller and Dobrovolsky (1959) and unpublished map by R. G. Gastil, U.S. Army Map Service, 1956

QUATERNARY

MESOZOIC