OPEN-FILE REPORT

Figure 1. Reconnaissance geologic map of the Anchorage B-6 quadrangle, Alaska.

OPEN-FILE REPORT

EXPLANATION

UNCONSOLIDATED DEPOSITS

QUATERNARY

Qs — Surficial deposits

METAMORPHIC ROCKS

JURASSIC(?) and CRETACEOUS

KJv — Valdez (?) Group
Predominantly metagraywacke, siltite, and argillite flysch deposits; includes some calcareous metasandstones. Locally phyllitic. Generally medium to dark gray. Metamorphic assemblages of white mica, chlorite, epidote, and albite (greenschist facies?) are widespread. Pattern indicates areas of rusty to orange weathering

JURASSIC or CRETACEOUS

JKa — Heterogeneous Assemblage
Includes marine metaclastic and metavolcanic rocks. Predominantly metasandstone to metaconglomeratic sandstone; commonly quartz-poor, feldspathic to lithic; may include tuffaceous material. Characteristically massive, jagged outcrops; bedding commonly obscure to indistinguishable. Generally dark green to gray-green on weathered surfaces. Subordinate greenstones (including basaltic and spilitic pillow lavas) usually associated with chert, cherty argillite, and argillite. May be part of a tectonically mixed mass of rocks which locally resembles a melange. Both clastic and volcanic sequences contain widespread prehnite-pumpellyite facies metamorphic assemblages. The possibility that this unit is of early Tertiary age and that the contact with the Valdez (?) Group is not entirely a fault contact has not been ruled out, but is considered unlikely
- Open dot pattern indicates known areas of predominantly massive, weakly metamorphosed sandstone and conglomeratic sandstone
- Open triangle pattern indicates known areas of predominantly greenstone, chert, cherty argillite, and argillite
- Queried where doubtful

Upper Jurassic or Cretaceous

PERMIAN(?) to JURASSIC(?)

JPg — Greenschist, greenstone and gneiss
Greenschist facies minerals, epidote, actinolite, chlorite, plagioclase, and quartz, are well-developed

IGNEOUS ROCKS

TERTIARY(?)

Tf — Felsic to intermediate hypabyssal rocks. Dikes, sills, and small intrusive bodies. Most mapped from air photos, some checked on ground

PALEOZOIC or MESOZOIC

MzPzu — Ultramafic rocks
Predominantly peridotite (wehrlite), dunite, and pyroxenite. Most is weakly serpentinized; locally strongly serpentinized.

This map is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards and nomenclature

SYMBOLS

Contact

Fault
Dashed where inferred, dotted where concealed, queried where hypothetical. Arrows show apparent relative horizontal movement

Probable thrust fault
Sawteeth on upper plate; dotted where concealed

Air photo linear feature, thought to be a fault

Strike and dip of bedding

Strike of vertical bedding

Strike and dip of cleavage

Strike and dip of parallel bedding and cleavage

Strike of vertical cleavage

Approximate strike and dip of layering taken from aerial photographs (probably most are on cleavage)

Lineation, showing plunge

Minor fold axis, showing plunge

Strike and dip of axial plane of minor fold

Horizontal axial plane of minor fold

Strike of vertical axial plane of minor fold

? Doubtful area, not visited

INDEX MAP SHOWING FIELD COVERAGE
Foot traverses shown by lines; helicopter and vehicle stops shown by dots. Bedrock contacts and structures have been extended between field stations by aerial reconnaissance.