


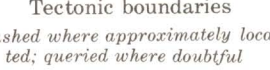










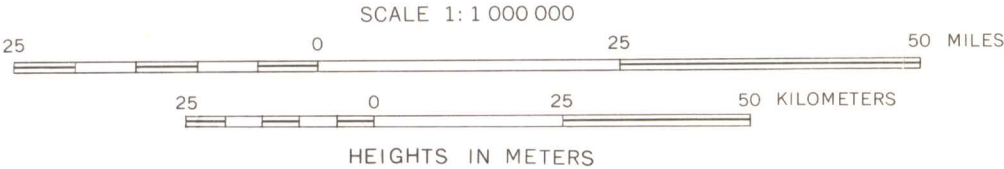
Base from Army Map Service Anchorage and Kodiak sheets

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1966—W65179
Map modified after D. J. Miller, T. G. Payne,
and George Gryc (1959)

EXPLANATION

- | | | | |
|---|-----------------------------------|--|--------------------------------------|
| 
Surficial deposits
Mainly glacial and outwash deposits; include recent alluvium. Underlying units shown by appropriate color where age may be inferred | QUATERNARY | 
Crystalline basement complex
Highly deformed rocks exposed along flanks of Talkeetna geanticline; commonly foliated; includes schist, gneiss, quartzite, greenstone, and marble | UPPER PALEOZOIC TO LOWER JURASSIC(?) |
| 
Bedded volcanic rock
Undeformed to very gently deformed terrestrial volcanic flows and associated pyroclastic beds chiefly of andesite, basalt, and rhyolite of late Tertiary and Quaternary age | TERTIARY AND QUATERNARY | 
Tectonic boundaries
Dashed where approximately located; queried where doubtful | |
| 
Bedded Tertiary rock
Undeformed to very gently deformed sedimentary rocks, chiefly continental deposits of early to late Tertiary age; unconformable on older rock units | TERTIARY | 
Bruin Bay fault
Major high-angle reverse fault on Alaska Peninsula and in Cook Inlet region; in general separates older Mesozoic from younger Mesozoic rocks along west side of Cook Inlet; Tertiary in age; may have large lateral component of movement; sawteeth on up-thrown block, dotted where concealed | |
| 
Batholith and stocks
Intrusive rocks of felsic to intermediate composition, chiefly granodiorite, quartz diorite, and quartz monzonite. Aleutian Range batholith is early Middle Jurassic in age; stocks Jurassic to late Tertiary | MIDDLE JURASSIC TO UPPER TERTIARY | 
Geanticlinal and anticlinal axes
Geanticlinal elements mainly of Mesozoic age; anticlinal folds mainly Tertiary; dashed where inferred | |
| 
Bedded rocks of secondary geosyncline
Gently to sharply folded sedimentary rocks, chiefly epiclastic deposits of graywacke, conglomerate, siltstone, and shale; regionally unconformable on older rocks | MIDDLE JURASSIC TO CRETACEOUS | 
Geosynclinal and synclinal axes
Geosynclinal elements mainly of Mesozoic age; synclinal folds mainly Tertiary; dashed where inferred | |
| 
Bedded rocks of primary geosyncline
Moderate to highly deformed rocks, mainly limestone, calcareous shale, chert, and mafic, igneous rocks of Triassic age and marine volcanic rocks of Early Jurassic age; rocks locally metamorphosed to marble greenstone, and low-rank schist; exposed chiefly in geanticlinal uplifts; unconformable on basement complex | PERMIAN(?) TO LOWER JURASSIC | 
Boundary of Cenozoic basin
Basins known or inferred to be the result of Cenozoic tectonic movement | |

TECTONIC MAP OF PART OF ALASKA PENINSULA AND COOK INLET REGION, ALASKA



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