

**EXPLANATION**

**TERTIARY**

**UNCONFORMITY**

**UNCONFORMITY**

**CRETACEOUS**

**UNCONFORMITY**

**MES**

**Granitic intrusive rocks**  
Granite, granodiorite, and rhyolite, chiefly of middle and late Mesozoic age; also includes igneous rocks of Late Cretaceous age near Jumbo Dome and on Moody Creek, Healy Creek, and lower Moose Creek

**smv**

**Undifferentiated sedimentary, metamorphic, and volcanic rocks**  
Argillite, phyllite, slate, schist, limestone, and associated volcanic rocks, intruded by greenstone sills

**UNCONFORMITY(?)**

**Ml**

**Totatlanika schist**  
Quartz-orthoclase-sericite schist, probably meta-rhyolite

**UNCONFORMITY(?)**

**pCbc**

**Birch Creek schist**  
Quartz-sericite schist, locally carbonaceous, and quartzite and marble

**PALEOZOIC AND MESOZOIC**

**MISSISSIPPIAN(?)**

**PRE-CAMBRIAN**

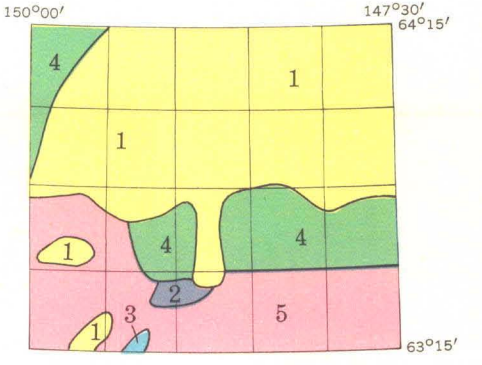
**Contact**

**Fault**  
U, upthrown side; D, downthrown side

**Mine**

Note: Discrepancies between contacts on this map and those on plates 3, 4, 5, and 6 result from adjustment of geology of this map to the reconnaissance topography of the Healy and Fairbanks quadrangles used as a base for this map. Locations of contacts are more accurate on plates 3, 4, 5, and 6

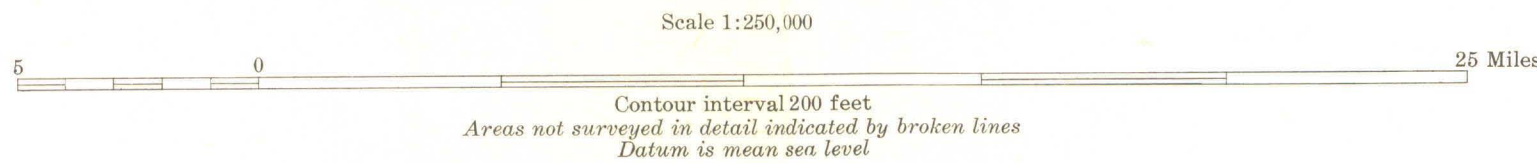
1953 magnetic declination varies from approximately 28° east at the southwest corner of the map to approximately 29°40' east at the northeast corner of the map



- INDEX MAP, SHOWING SOURCES OF INFORMATION**
1. Geology by Clyde Wahrhaftig, C. A. Hickcox, R. A. Eckhart, Jacob Freedman, and J. H. Birman, 1943-1954
  2. Geology by R. M. Moxham, W. S. West, A. E. Nelson, and E. H. Cobb, 1946 and 1950
  3. Geology by D. M. Hopkins, 1944, U. S. Geol. Survey Bull. 963-E, fig. 36
  4. Geology from U. S. Geol. Survey Bull. 907, plates 2 and 3, revised by Clyde Wahrhaftig. Revision based on aerial reconnaissance and photogeology, 1951-1954
  5. Geology from U. S. Geol. Survey Bull. 907, plate 2

Base from Healy and Fairbanks quadrangles by U. S. Geological Survey, U. S. Corps of Engineers, and U. S. Air Force

MAP OF THE ALASKA RANGE BETWEEN LONGITUDE 147°30' AND 150°00' WEST, SHOWING BEDROCK GEOLOGY



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