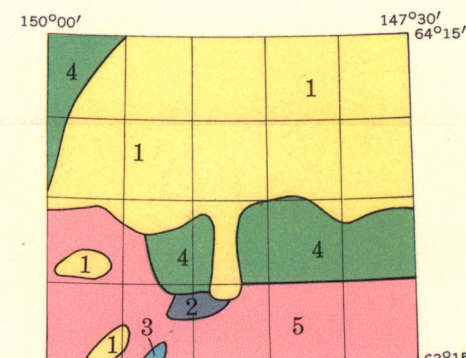


EXPLANATION

- Tertiary**
- Nenana gravel**  
Buff to reddish-brown poorly consolidated conglomerate and sandstone; locally contains claystone and lignitic coal
- UNCONFORMITY**
- Coal-bearing formation**  
Poorly consolidated conglomerate, sandstone, claystone, and subbituminous coal
- UNCONFORMITY**
- Cantwell formation**  
Well consolidated dark-gray and light-tan conglomerate, sandstone, shale, argillite, and coal; intruded by dikes, sills, and laccoliths ranging in composition from diabase to rhyolite. Contains interbedded volcanic rocks
- 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
- PALEOZOIC AND MESOZOIC**
- smv**  
Undifferentiated sedimentary, metamorphic, and volcanic rocks  
Argillite, phyllite, slate, schist, limestone, and associated volcanic rocks, intruded by greenstone sills
- UNCONFORMITY(?)**
- Mt**  
Totatlanika schist  
Quartz-orthoclase-sericite schist, probably meta-rhyolite
- UNCONFORMITY(?)**
- pCbc**  
Birch Creek schist  
Quartz-sericite schist, locally carbonaceous, and quartzite and marble
- MISSISSIPPIAN(?)**
- PRE-CAMBRIAN**
- Contact**  
U  
D  
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. Hickox, R. A. Eckhart, Jacob Freedman, and J. H. Birman, 1945-1954
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

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

