

EXPLANATION

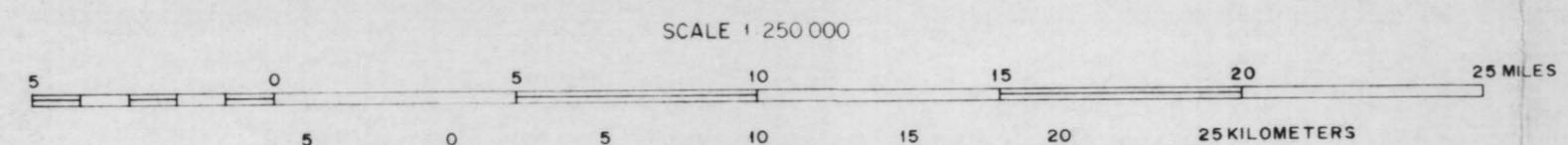
LAYERED ROCKS		INTRUSIVE ROCKS	
Qs	QUATERNARY	[Pattern]	Tgr, granite Tgp, granite porphyry Tqm, quartz monzonite Tgd, granodiorite Tg, undiff. felsic intrusives
Qa			
Ts	TERTIARY	[Pattern]	TKm, migmatitic intrusive rocks with pervasive directional fabric and intermediate composition TKg, granodiorite and quartz diorite
Tn			
Kgn	CRETACEOUS *	[Pattern]	Kqm, quartz monzonite Kgd, granodiorite Kqd, quartz diorite
Ksp			
Js	JURASSIC	[Pattern]	Jag, alkali gabbro Jqd, quartz diorite, moderately metamorphosed Jg, undifferentiated granitoid bodies
Jn			
Rv	TRIASSIC	[Pattern]	Rv, tholeiitic basalt and andesite Rs, volcaniclastic sediments, chert and limestone
Ra			
Pzv	PERMIAN (?)	[Pattern]	Pzv, metavolcanic rocks, dominantly meta-andesite and meta-dacite. Schistose fabric commonly developed
Da			
Da	DEVONIAN	[Pattern]	Shale, sandstone, conglomerate, limestone and slate

* age of metamorphism

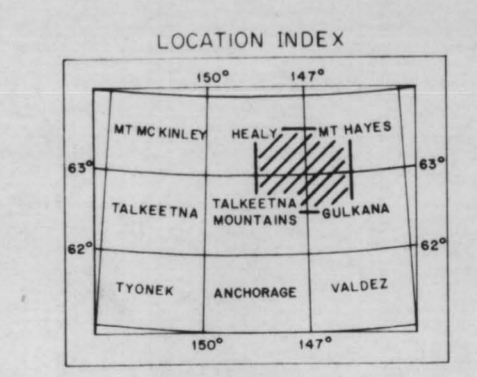
--- Contact
 - - - High-angle fault
 - - - Thrust fault

□ Location and K-Ar mineral age of dated sample. B-biotite, H-hornblende, M-muscovite, S-sericite, A-amphibole
 □ Approximate location
 □ Ages determined by U.S. Geol. Survey and reported in Isochron/West, No. 2, 1971

Base from U.S. Geol. Survey Healy, Mt. Hayes, Gulkana, and Talkeetna Mtns. quadrangle maps.



Geologic mapping mainly by T.E. Smith, 1968-73, assisted by S.R. Bruff, S.W. Ivošević, G.L. Kline, and T.K. Bundtzen. Geology near Richardson Hwy. by J.H. Stout and Florence Weber, along Hines Creek Strand by Clyde Wahrhaftig, Florence Weber and T.E. Smith.



GEOCHRONOLOGY AND GENERALIZED GEOLOGY of the CENTRAL ALASKA RANGE, CLEARWATER MOUNTAINS, AND NORTHERN TALKEETNA MOUNTAINS

by
D.L. Turner and T.E. Smith

State of Alaska
 Division of Geological and Geophysical Surveys
 Geochronology and Generalized Geology of the
 Central Alaska Range, Clearwater Mountains and
 Northern Talkeetna Mountains, Alaska
 By D.L. Turner, T.E. Smith Scale: 1:250,000
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