UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ALASKAN GEOLOGY BRANCH
U.S. GEOLOGICAL SURVEY
P.O. BOX 80586
COLLEGE, ALASKA 99701

A TABULATION OF K-Ar, Rb-Sr, AND Pb-d AGES
OBTAINED FOR MATERIALS WITHIN THE
UNITED STATES (INCLUDING ALASKA AND HAWAII)
DURING THE YEARS 1956 THROUGH 1964

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

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Ages Published in 1958

Rock type & Location Material Dated	Age (m.y.) <u>K-Ar</u>	<u>Rb-Sr</u>	<u>Pb-Cr</u>	Reference
<u>Alaska</u>				
Diorite, Tolstoi Point, Prince of Wales Island, Craig C-2 quad. zircon			103	Matzko, 1958
Granodiorite, Coast Range batholith, Turner Lake, near Taku Inlet, Taku River quad. zircon			93	Matzko, 1958
Granodiorite, Porcupine Creek, McCarthy quad. zircon			105	Matzko, 1958
Leucosyenite, milepost 29, Taylor Highway, Mt. Fairplay, Tanacross quad. zircons "B" zircons "B" (leached) zircons "C" zircons "C" (leached) zircons "C" (leached) zircons "E" zircons "E" (leached) zircons "E" (leached)			104 99 93 106 98 110 112 99	Matzko, 1958
Granite, Birch Creek, Ruby quad. zircon zircon (leached) zircon (leached)			56 54 48	Matzko, 1958
Quartz monzonite, Flat Creek, Iditarod quad. zircon			49	Matzko, 1958
Quartz monzonite, Chicken Creek, Iditarod quad. zircon			60	Matzko, 1958
Monzonite, near Crystal Shaft mine, Medfra quad. zircon			58	Matzko, 1958

Rock type & Location Material Dated	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
<u>Alaska</u>				
Diorite, head of Oshetna River, Talkeetna Mtns. biotite	169			Evernden (1961)
Diorite, 59°18'N, 135°30'W, Lutak Inlet biotite	30			Lowdon (1961)
<u>Alabama</u>				
Tuff from Carter's Limestone Stone River Group, Wenonah No. 8 Mine, Bessemer biotite	421			Evernden (1961)
Bentonite layer in Carters Lime- stone, Stones River Group, near Bessemer biotite (Pyne Mine)	420			Faul, H. (1961)
biotite (Wenonah #8 Mine)	419	450±40		
<u>Arizona</u>				
Yavapai Schist near Prescott on Hwy 69, Yavapai Co. biotite	490			Giletti, B. J. (1961a) Damon (1961)
Oracle Granite near Campo Bonito Mine, Oracle, Pinal Co. biotite	1450			Giletti, B. J. (1961a) Damon (1961)
Samaniego Granite, near Pirate fault, east of Canada del Oro wash, Pinal Co. biotite	30±30			Giletti, B. J. (1961a) Damon (1961)
Catalina Gneiss, Mt. Lemmon Hwy at Hitchcock Memorial, Pima Co. biotite-muscovite mixture	150±90			Giletti, B. J. (1961a) Damon (1961)
Pegmatite in Vishnu Schist, Grand Canyon, Coconino Co. muscovite	1530			Giletti, B. J. (1961a) Damon (1961)
muscovite	1550			
Migmatite zone in Vishnu Schist, Grand Canyon, Coconino Co. biotite	1390			Giletti, B. J. (1961a) Damon (1961)
Granite, near Valentine, Mohave Co. biotite	1300			Giletti, B. J. (1961a) Damon (1961)
Diana Granite, Chloride Mine, Chloride, Mohave Co. biotite	1350			Giletti, B. J. (1961a) Damon (1961)
Chloride Granite, north of Chloride, Mohave Co. biotite	1210			Giletti, B. J. (1961a) Damon (1961)

Ages Published in 1963

Rock type & Location Material Dated	K-Ar	Age (m.y.) Rb-Sr	Pb-Pt	Reference
Alaska				
Quartz diorite-granodiorite, Kosina batholith biotite biotite	169 155			Grantz, A. (1963)
Granodiorite, Kosina batholith zircon			125±15	Grantz, A. (1963)
Granodiorite, Kosina batholith biotite zircon	170		165±20	
Quartz diorite-granodiorite boulders, Talkeetna Mtns. biotite zircon	160		180±20	Grantz, A. (1963)
Granodiorite-quartz monzonite boulders, Talkeetna Mtns. biotite	155			Grantz, A. (1963)
Quartz diorite boulders, Talkeetna Mtns. biotite zircon	160		150±15	Grantz, A. (1963)
Leucogranite, 59°34'N, 135°11'W biotite	65			Lowden (1963)
Leucogranite, 59°30'30"N, 135° 13'30'W biotite	70			Lowden (1963)
Birch Creek Schist near Jack Wade, east-central Alaska mica	177-187			Wasserburg (1963)
Granite, Mt. Taylor batholith biotite	190			Wasserburg (1963)
Mt. Fairplay granite biotite	66			Wasserburg (1963)
Granite, Circle Hot Springs mica (?)	71			Wasserburg (1963)

Ages Published in 1963

Rock type & Location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
<u>Alaska (Cont'd)</u>				
Granite, Birch Lake mica (?)	134			Wasserburg (1963)
Birch Creek Schist near Montana Creek muscovite		459		Wasserburg (1963)
<u>Arizona</u>				
Catalina Gneiss, Sabino Canyon, Santa Catalina Mtns. muscovite	25.9			Damon (1963)
Catalina Gneiss, at Hitchcock Memorial, Santa Catalina Mtns. muscovite biotite	29.5 24.8			Damon (1963)
Schist lens in Catalina Gneiss, northeast Rincon Mtns. muscovite	27.0			Damon (1963)
Brady Butte Granodiorite, Wolf Creek, 1 mi. NNW of Brady Butte (from USGS file) biotite zircon	1230	1200	1400 $\pm$ 160 = 1700 m.y.	Anderson (1963)
	Pb ²⁰⁷ /Pb ²⁰⁶			