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MAP SHOWING RADIOMETRIC AGES OF ROCKS IN
SOUTHEASTERN ALASKA

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Open-File Report

79-594

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

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Map and table showing radiometric ages of rocks in
southeastern Alaska

by

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The following report is a compilation of published, thesis, and unpublished material on radiometric dates from southeastern Alaska. The locations of these samples are plotted on a National Atlas map at 1:1,000,000. An additional inset for the Ketchikan quadrangle is plotted at 1:500,000 due to the large number of samples analyzed in this area.

The information is organized alphabetically by quadrangle in table 1. Data for each date obtained on a given sample is displayed on three lines. The first line consists of information concerning quadrangle, latitude and longitude(to within a tenth of a minute), rock type, dating method, mineral dated, and age. The second line is reserved for additional pertinent information such as geographic location, descriptive rock names, and limitations imposed on the age by the original author. The third line consists of all known references for each sample. Table 2 is an explanation of abbreviations used in table 1.

This report is an update of and supersedes Wilson and Turner (1975).

Table 1. Radiometric ages of rocks in southeastern Alaska

Quadrangle	Latitude	Longitude	Sample No.	Rock Meth.	Min. Age(my)
Craig Mean of 2 Herreid, 1975	55 06.0N	132 27.0W	DT72-59	GDI K HO	102.
Craig Approximate location Turner and others, 1977	55 06.0N	132 27.0W	DT72-59B	GDI K HO	112.
Craig Approximate location Turner and others, 1977	55 06.0N	132 27.0W	DT72-59C	GDI K HO	91.6
Craig Turner and others, 1977	55 08.6N	132 40.4W	DT72-52C	GSCH K HO	484.
Craig Herreid, 1975	55 08.6N	132 40.4W	DT72-52C	GSCH K IC	450.
Craig Inherited ⁴⁰ Ar Turner and others, 1977	55 08.6N	132 40.4W	DT72-52C	GSCH K TR	661.
Craig Turner and others, 1977	55 08.8N	132 41.7W	DT72-51A	GSCH K HO	465.
Craig Turner and others, 1977	55 08.8N	132 41.7W	DT72-51A	GSCH K HO	496.

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock Meth.	Min. Age(my)
Craig	55 08.8N	132 41.7W	DT72-51A	GSCH K IC	450.
Herreid, 1975					
Craig	55 08.8N	132 41.7W	DT72-51A	GSCH K TR	603.
Inherited 40Ar Turner and others, 1977					
Craig	55 08.8N	132 41.7W	DT72-51A	GSCH K TR	621.
Inherited 40Ar Turner and others, 1977					
Craig	55 10.0N	132 34.0W	70C110	GDI K BI	105.1
Herreid, 1975; Turner and others, 1977					
Craig	55 10.0N	132 34.0W	70C110	GDI K HO	103.1
Herried, 1975; Turner and others, 1977					
Craig	55 10.9N	132 37.8W	72C174B	OTHER K WR	510.
Inherited 40Ar--rock type metakeratophyre Turner and others, 1977					
Craig	55 10.9N	132 37.8W	72C174B	OTHER K WR	543.
Inherited 40Ar--rock type metakeratophyre Turner and others, 1977					
Craig	55 10.9N	132 37.8W	72C174B	SCH K IC	450.
Herreid, 1975					

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock Meth.	Min. Age(my)
Craig	55 12.0N	132 31.0W	DT72-60A	HFLS K AC	215.8
	Herreid, 1975; Turner and others, 1977				
Craig	55 12.2N	132 19.6W	72C410	HFLS K BI	355.
	Herreid, 1975; Turner and others, 1977				
Craig	55 15.1N	132 14.6W	72C149	GNS K HO	495
	Migmatitic gneiss Turner and others, 1977				
Craig	55 15.7N	132 36.5W	DT72-61B	GDI K HO	101.9
	Herreid, 1975; Turner and others, 1977				
Craig	55 16.0N	132 39.0W	DT72-55A	HFLS K AC	141.
	Contact metamorphosed greenschist Herreid, 1975; Turner and others, 1977				
Craig	55 16.7N	132 35.4W	DT72-57A	GDI K HO	103.1
	Herreid, 1975; Turner and others, 1977				
Craig	55 17.0N	132 33.0W	DT72-56A	GDI K HO	101.4
	Herreid, 1975; Turner and others, 1977				
Craig	55 32.0N	132 51.5W	71AE67	VOL K AM	281.
	Reset? Berry et al, 1976				

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock Meth.	Min.	Age(my)
Craig	55 32.5N	132 50.7W	71AE68	Q DI	K AM	112.
Berry et al, 1976						
Craig	55 32.7N	133 05.7W	65AE262	SY	K BI	276.8
Churkin and Eberlein, 1975,1977						
Craig	55 37.1N	133 35.0W	64ALe239	DI	K HO	427.8
40/39 Total fusion Lanphere et al, 1977; Churkin and Eberlein, 1977						
Craig	55 37.2N	133 00.2W	65AE31	VOL	K AM	442.
Churkin and Eberlein, 1975; Berry et al, 1976						
Craig	55 38.1N	133 33.5W	71AE225d	SBREC	K HO	432.9
40/39 Total fusion Lanphere et al, 1977						
Craig	55 40.0N	132 23.6W	55ASn242	DI	A ZI	103.
Tolstoi Point, early Pb-A age, suspect. Jaffe et al, 1959; Larsen et al, 1958; Matzko et al, 1958						
Craig	55 42.5N	133 09.5W	66AE91	VOL	K AM	438.
Churkin and Eberlein, 1975, 1977; Berry et al, 1976						
Dixon Entrance	54 51.0N	132 21.0W	DT72-58C	GDI	K HO	421.
Minimum age Herreid, 1975; Turner and others, 1977						

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock Meth.	Min. Age(my)
Dixon Entrance	54 51.5N	132 03.0W	7D	Q DI K HO	446.
Lanphere et al, 1964, 1965; Churkin and Eberlein, 1977					
Dixon Entrance	54 52.0N	132 02.5W	6D	Q DI K BI	372.
Lanphere et al, 1964					
Dixon Entrance	54 53.5N	132 03.0W	2D	Q DI A ZI	510.
Lanphere et al, 1964					
Dixon Entrance	54 54.0N	132 06.0W	5D	Q DI K HO	431.
Lanphere et al, 1964, 1965					
Dixon Entrance	54 54.0N	132 25.0W	72AE217	TROND P ZI	730.
Churkin and Eberlein, 1977					
Dixon Entrance	54 54.5N	132 08.5W	3D	GR A ZI	240.
Bokan Mountain					
Lanphere et al, 1964					
Dixon Entrance	54 55.0N	132 08.5W	1D	GR K RI	181.
Bokan Mountain					
Lanphere et al, 1964					
Dixon Entrance	54 55.0N	132 08.5W	4D	GR K RI	186.
Bokan Mountain					
Lanphere et al, 1964					

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock Meth.	Min. Age(my)
Juneau	58 21.0N	134 19.0W	MOC	GNS K BI	51.4
Forbes and Engels, 1970					
Juneau	58 21.0N	134 19.0W	MOC	GNS K HO	55.9
Forbes and Engels, 1970					
Juneau	58 21.0N	134 22.0W	CRE	AMPH K HO	59.8
Forbes and Engels, 1970					
Juneau	58 21.0N	134 24.0W	CRN	SCH K BI	57.
Forbes and Engels, 1970					
Juneau	58 22.0N	134 21.0W	TVC	GNS K BI	53.8
Forbes and Engels, 1970					
Juneau	58 22.0N	134 21.0W	TVC	GNS K HO	56.1
Forbes and Engels, 1970					
Juneau	58 25.0N	135 12.5W	58ACo191	GDI A ZI	180.
Hornblende granodiorite Loney et al, 1967					
Juneau	58 30.0N	134 21.0W	WN5	SCH K BI	50.4
Nunatak Forbes and Engels, 1970					

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock Meth.	Min. Age(my)
Juneau	58 36.0N	134 15.0W	WN1	GNS	K BI 54.2
Forbes and Engels, 1970					
Juneau	58 39.0N	134 12.0W	EN6	GNS	K BI 47.
Forbes and Engels, 1970					
Juneau	58 40.0N	134 02.0W	EN5	QMON	K NR 51.
Forbes and Engels, 1970					
Ketchikan	55 01.4N	131 33.4W	68ABG724	Q DI	K HO 204.7
Berg and others, 1978; Koch, writ. comm., 1979					
Ketchikan	55 01.4N	131 34.0W	68ABG727	Q DI	K BI 181.8
Recalculated with 1976 constants					
Berry and others, 1976; Berg and others, 1978; Koch, writ. comm., 1979					
Ketchikan	55 02.4N	131 31.8W	68ABG608	SCH	K BI 79.3
Quartz-biotite schist					
Berg and others, 1978; Koch, writ. comm., 1979					
Ketchikan	55 02.7N	131 00.3W	75ASJ473B	SCH	K AC 84.1
Biotite-epidote-plagioclase-quartz schist					
Smith and others, 1977; Berg and others, 1978; Koch, writ. comm., 1979					
Ketchikan	55 02.7N	131 00.3W	75ASJ473B	SCH	K BI 67.3
biotite-epidote-plagioclase-quartz schist					
Smith and others, 1977; Berg and others, 1978; Koch, writ. comm., 1979					

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Ketchikan	55 04.1N	131 33.8W	68ABg247	Q DI	K BI		305.6
	Recalculated with 1976 constants						
	Berry and others, 1976; Berg and others, 1978; Koch, writ. comm., 1979						
Ketchikan	55 05.5N	130 56.8W	69ASj300A	SCH	K BI		52.7
	Biotite-plagioclase-quartz schist						
	Berg and others, 1978; Koch, writ. comm., 1979						
Ketchikan	55 05.5N	130 56.8W	69ASj300A	SCH	K HO		75.0
	Biotite-plagioclase-quartz schist						
	Berg and others, 1978; Koch, writ. comm., 1979						
Ketchikan	55 10.8N	131 00.2W	75ASj509	GDI	K BI		57.9
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 10.8N	131 00.2W	75ASj509	GDI	K HO		77.5
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 11.1N	131 34.7W	68ABg553	Q DI	K HO		424.0
	Berg and others, 1978; Koch, writ. comm., 1979						
Ketchikan	55 13.3N	131 08.8W	64ALe49B	HBDT	K BI		76.1
	Approximate location						
	Berg and others, 1978; Koch, writ. comm., 1979						
Ketchikan	55 13.3N	131 08.8W	64ALe49B	HBDT	K HO		99.0
	Approximate location						
	Berg and others, 1978; Koch, writ. comm., 1979						

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Ketchikan	55 16.0N	131 30.2W	68ABg679	Q DI	K	MU	89.1
	Berg and others, 1978; Koch, writ. comm., 1979						
Ketchikan	55 16.8N	131 18.5W	76ASj632	GDI	K	BI	96.4
	Berg and others, 1978						
Ketchikan	55 16.8N	131 18.5W	76ASj632	GDI	K	HO	109.
	Berg and others, 1978						
Ketchikan	55 17.5N	130 49.1W	3S005	AMPH	K	HO	51.4
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 17.6N	130 56.7W	3S004	SCH	K	BI	46.0
	Epidote-biotite-quartz-plagioclase-hornblende schist Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 17.6N	130 56.7W	3S004	SCH	K	HO	59.4
	Epidote-biotite-quartz-plagioclase-hornblende schist Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 17.9N	130 53.0W	3E001	AMPH	K	BI	45.9
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 17.9N	130 53.0W	3E001	AMPH	K	HO	48.6
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Ketchikan	55 19.6N	131 03.1W	75ASj463A	BAS	K PL		4.9
	Porphyritic olivine basalt--age may be too old Berg and others, 1978; Koch, writ. comm., 1979						
Ketchikan	55 21.2N	131 01.3W	0S259	SCH	K HO		72.3
	Muscovite-quartz-actinolite-garnet schist Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 21.2N	131 01.3W	0S259	SCH	K MU		57.4
	Muscovite-quartz-actinolite-garnet schist Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 23.9N	130 28.7W	76ASj565A	QMON	K BI		26.2
	Berg and others, 1978; Koch, writ. comm., 1979						
Ketchikan	55 25.3N	131 37.6W	75ASj417	GDI	K BI		22.6
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 25.3N	131 37.6W	75ASj417	GDI	K HO		24.3
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 30.2N	130 56.3W	2B335	BAS	K WR		5.9
	Age may be too old Berg and others, 1978; Koch, writ. comm., 1979						
Ketchikan	55 31.7N	130 43.8W	3S042	BAS	K PL		.39
	Berg and others, 1978; Koch, writ. comm., 1979						

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock Meth.	Min. Age(my)
Ketchikan	55 31.7N	130 43.8W	3S042	BAS	K WR .95
	Berg and others, 1978; Koch, writ. comm., 1979				
Ketchikan	55 41.1N	130 37.3W	3S037	GNS	K BI 45.7
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				
Ketchikan	55 41.1N	130 37.3W	3S037	GNS	K HO 45.8
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				
Ketchikan	55 42.0N	130 17.0W	3S038	Q DI	K BI 42.4
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				
Ketchikan	55 42.0N	130 17.0W	3S038	Q DI	K HO 47.7
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				
Ketchikan	55 43.0N	130 54.2W	2E020A	AMPH	K BI 41.8
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				
Ketchikan	55 43.0N	130 54.2W	2E020A	AMPH	K HO 55.6
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				
Ketchikan	55 43.2N	130 48.4W	28008	GDI	K BI 43.8
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock Meth.	Min.	Age(my)
Ketchikan	55 43.2N	130 48.4W	2B008	GDI	K HO	52.2
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 45.0N	131 42.9W	OS379	GDI	K BI	80.3
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 45.0N	131 42.9W	OS379	GDI	K HO	87.4
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 47.1N	130 58.0W	3S035	Q DI	K BI	44.4
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 47.1N	130 58.0W	3S035	Q DI	K HO	51.5
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 48.0N	130 46.6W	3S022	GDI	K BI	41.8
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 48.1N	131 31.8W	OS341A	SCH	K BI	78.2
	Garnet-muscovite-biotite-quartz-plagioclase schist					
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 48.1N	131 31.8W	OS341A	SCH	K HO	81.0
	Garnet-muscovite-biotite-quartz-plagioclase schist					
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock Meth.	Min.	Age(my)
Ketchikan	55 48.1N	131 31.8W	OS341B	AMPH	K BI	76.7
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 48.1N	131 31.8W	OS341B	AMPH	K BI	79.1
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 48.6N	130 27.0W	3S036	GDI	K BI	45.0
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 48.6N	130 27.0W	3S036	GDI	K HO	49.1
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 50.0N	131 11.0W	2S129	QMON	K BI	47.6
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 50.0N	131 11.0W	2S129	QMON	K HO	52.8
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 50.2N	131 35.8W	OS366A	SCH	K BI	93.5
	Kyanite-biotite-muscovite-quartz-plagioclase schist					
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			
Ketchikan	55 50.2N	131 35.8W	OS366A	SCH	K HO	81.8
	Kyanite-biotite-muscovite-quartz-plagioclase schist					
	Berg and others, 1978;	Smith and others, 1977;	Koch, writ. comm., 1979			

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Ketchikan	55 50.2N	131 35.8W	0S366A	SCH	K	MU	74.9
	Kyanite-biotite-muscovite-quartz-plagioclase schist						
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 50.2N	131 35.8W	0S366C	AMPH	K	HO	82.2
	Garnet amphibolite						
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 50.8N	130 31.9W	3S029	GDI	K	BI	44.3
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 52.0N	131 01.9W	2E324A	Q DI	K	BI	46.3
	Gneissic quartz diorite						
	Berg and others, 1978; Koch, writ. comm., 1979						
Ketchikan	55 52.0N	131 01.9W	2E324A	Q DI	K	HO	48.5
	Gneissic quartz diorite						
	Berg and others, 1978; Koch, writ. comm., 1979						
Ketchikan	55 52.9N	131 33.5W	0S431	Q DI	K	BI	69.9
	Hornblende-biotite quartz diorite; Hassler Pass						
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 52.9N	131 33.5W	0S431	Q DI	K	HO	83.4
	Hornblende-biotite quartz diorite; Hassler Pass						
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 53.2N	131 40.5W	75ASj414A	Q DI	K	BI	72.6
	Smith and others, 1977; Berg and others, 1978; Koch, writ. comm., 1979						

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock Meth.	Min. Age(my)
Ketchikan	55 53.2N	131 40.5W	75ASj414A	Q DI K HO	79.8
	Smith and others, 1977;	Berg and others, 1978;		Koch, writ. comm., 1979	
Ketchikan	55 53.3N	130 53.0W	3S014	GDI K BI	43.6
	Berg and others, 1978;	Smith and others, 1977;		Koch, writ. comm., 1979	
Ketchikan	55 53.3N	130 53.0W	3S014	GDI K HO	49.1
	Berg and others, 1978;	Smith and others, 1977;		Koch, writ. comm., 1979	
Ketchikan	55 54.3N	130 48.3W	3S025	Q DI K BI	44.0
	Berg and others, 1978;	Smith and others, 1977;		Koch, writ. comm., 1979	
Ketchikan	55 54.3N	130 48.3W	3S025	Q DI K HO	52.1
	Berg and others, 1978;	Smith and others, 1977;		Koch, writ. comm., 1979	
Ketchikan	55 54.8N	130 31.6W	2E103	Q DI K BI	44.2
	Berg and others, 1978;	Smith and others, 1977;		Koch, writ. comm., 1979	
Ketchikan	55 54.8N	130 31.6W	2E103	Q DI K HO	63.6
	Berg and others, 1978;	Smith and others, 1977;		Koch, writ. comm., 1979	
Ketchikan	55 54.8N	131 20.0W	AA147	GAB K BI	173.

Irvine, 1967

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Ketchikan Ultramafic complex Irvine, 1967	55 54.8N	131 20.0W	AA148	PEG	K	HO	108.
Ketchikan Berg and others, 1978;	55 55.2N	131 30.5W	8SC22	Q	DI	K BI	72.4
Koch, writ. comm., 1979							
Ketchikan Berg and others, 1978;	55 55.2N	131 30.5W	8SC22	Q	DI	K HO	78.2
Koch, writ. comm., 1979							
Ketchikan Hornblende-biotite quartz diorite Berg and others, 1978;	55 56.0N	131 12.7W	3S033	Q	DI	K BI	47.5
Smith and others, 1977;							
Koch, writ. comm., 1979							
Ketchikan Hornblende-biotite quartz diorite Berg and others, 1978;	55 56.0N	131 12.7W	3S033	Q	DI	K HO	54.1
Smith and others, 1977;							
Koch, writ. comm., 1979							
Ketchikan Biotite-hornblende quartz diorite Berg and others, 1978;	55 56.1N	131 26.0W	3S030	Q	DI	K BI	52.5
Smith and others, 1977;							
Koch, writ. comm., 1979							
Ketchikan Biotite-hornblende quartz diorite Berg and others, 1978;	55 56.1N	131 26.0W	3S030	Q	DI	K HO	77.1
Smith and others, 1977;							
Koch, writ. comm., 1979							
Ketchikan Biotite-hornblende quartz diorite; Summit of Peak 3250 Berg and others, 1978;	55 56.2N	131 44.1W	75ASj413	Q	DI	K BI	72.4
Smith and others, 1977;							
Koch, writ. comm., 1979							

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock Meth.	Min. Age(my)
Ketchikan	55 56.2N	131 44.1W	75ASJ413	Q DI K BI	72.6
	Biotite-hornblende quartz diorite; Summit of Peak 3250				
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				
Ketchikan	55 56.2N	131 44.1W	75ASJ413	Q DI K HO	83.8
	Biotite-hornblende quartz diorite; Summit of Peak 3250				
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				
Ketchikan	55 57.0N	131 02.5W	3S023	GDI K BI	44.3
	Hornblende-biotite granodiorite				
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				
Ketchikan	55 57.0N	131 02.5W	3S023	GDI K HO	51.1
	Hornblende-biotite granodiorite				
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				
Ketchikan	55 57.1N	130 48.2W	3S015	SCH K BI	45.0
	Metapelitic schist and gneiss unit				
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				
Ketchikan	55 57.1N	130 48.2W	3S015	SCH K HO	52.3
	Metapelitic schist and gneiss unit				
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				
Ketchikan	55 57.4N	131 21.3W	3S031	Q DI K BI	50.0
	Leucocratic biotite-hornblende quartz diorite				
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				
Ketchikan	55 57.4N	131 21.3W	3S031	Q DI K HO	71.2
	Leucocratic biotite-hornblende quartz diorite				
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979				

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Ketchikan	55 57.8N	130 40.5W	3S026	Q DI	K BI		48.7
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 57.8N	130 40.5W	3S026	Q DI	K HO		49.3
	Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 58.1N	131 17.4W	3S032	Q DI	K BI		29.3
	Leucocratic biotite-hornblende quartz diorite, possibly reset by dike Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 58.1N	131 17.4W	3S032	Q DI	K BI		29.5
	Leucocratic biotite-hornblende quartz diorite, possibly reset by dike Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 58.1N	131 17.4W	3S032	Q DI	K HO		57.7
	Leucocratic biotite-hornblende quartz diorite Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 58.8N	131 47.7W	75ASJ412	Q DI	K BI		72.2
	Biotite quartz diorite Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Ketchikan	55 58.8N	131 47.7W	75ASJ412	Q DI	K HO		77.5
	Biotite quartz diorite Berg and others, 1978; Smith and others, 1977; Koch, writ. comm., 1979						
Petersburg	56 54.0N	133 57.6W	Peters1	TUFF	K GL		126.
	Brew and Muffler, 1966; U.S.G.S., 1965, p.A168						

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Port Alexander	56 11.0N	134 42.5W	LK8219	SCH	K	WR	34.7
	Loney et al, 1967; Loney et al, 1975						
Port Alexander	56 22.0N	134 55.0W	62ABd137e	BIOT	K	BI	43.1
	Loney et al, 1967						
Port Alexander	56 35.5N	135 01.0W	LK8212	HFLS	K	WR	45.2
	Biotite hornfels Loney et al, 1967; Loney et al, 1975						
Port Alexander	56 40.0N	134 59.5W	LK8213	HFLS	K	BI	45.7
	Biotite hornfels Loney et al, 1967; Loney et al, 1975						
Port Alexander	56 42.0N	134 53.0W	LK8215A	AND	K	HO	46.8
	Hornblende andesite(dike)? Loney et al, 1967						
Port Alexander	56 42.0N	134 53.0W	LK8215C	GDI	K	BI	42.0
	Biotite granodiorite Loney et al, 1967						
Port Alexander	56 42.5N	134 44.5W	LK8202	TROND	K	BI	25.8
	Biotite trondjemite Loney et al, 1967						
Port Alexander	56 43.0N	134 57.0W	LK8214	TON	K	BI	44.4
	Biotite leucotonalite Loney et al, 1967						

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Port Alexander Hornblende-biotite tonalite Loney et al, 1967	56 44.0N	134 38.0W	LK8201	TON	K	BI	24.9
Port Alexander Hornblende-biotite tonalite Loney et al, 1967	56 44.0N	134 38.0W	LK8201	TON	K	HO	31.5
Port Alexander Hornblende-biotite tonalite Loney et al, 1967	56 44.0N	134 43.0W	62APy157	TON	K	BI	24.3
Port Alexander Hornblende-biotite leucotonalite Loney et al, 1967	56 46.5N	134 56.5W	63AB41	TON	K	BI	44.2
Port Alexander Biotite granodiorite Loney et al, 1967	56 46.5N	135 10.0W	LK8211	GDI	K	BI	46.9
Port Alexander Muscovite pegmatite (dike) Loney et al, 1967	56 55.0N	134 43.5W	LK8217	PEG	K	MU	36.2
Port Alexander andalusite-garnet-biotite schist Loney et al, 1967	56 55.5N	134 44.5W	LK8216	SCH	K	BI	33.8
Prince Rupert Berg and others, 1978	54 52.3N	131 16.4W	64ALe66B	HBDT	K	HO	112.0

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Prince Rupert Mafic pegmatite Berg and others, 1978	54 52.6N	131 17.4W	64ALe59	PEG	K	HO	105.8
Prince Rupert Hornblende-plagioclase mafic pegmatite Berg and others, 1978	54 52.8N	131 15.7W	64ALe65	PEG	K	HO	129.0
Prince Rupert Hornblende-plagioclase mafic pegmatite Berg and others, 1978	54 52.8N	131 15.7W	64ALe65	PEG	K	HO	134.4
Prince Rupert Berg and others, 1978	54 53.5N	131 18.0W	I-28-2	UMAF	K	HO	108.3
Prince Rupert Berg and others, 1978	54 53.5N	131 18.0W	I-28-2	UMAF	K	HO	111.4
Prince Rupert Approximate location Berg and others, 1978	54 58.0N	131 23.0W	64ALe81	GDI	K	BI	315.2
Prince Rupert Approximate location Berg and others, 1978	54 58.0N	131 23.0W	64ALe81	GDI	K	MU	117.3
Prince Rupert Approximate location Berg and others, 1978	54 58.0N	131 23.0W	64ALe82	DI	K	HO	259.0

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Prince Rupert Approximate location Berg and others, 1978	54 58.3N	131 18.3W	64ALe79	GAB	K	BI	176.9
Sitka Hornblende-biotite tonalite Loney et al, 1967	57 01.0N	135 02.5W	62ALy201	TON	K	BI	47.2
Sitka Hornblende-biotite tonalite Loney et al, 1967	57 03.0N	134 51.0W	62APy252	TON	K	BI	38.7
Sitka Biotite granodiorite Loney et al, 1967	57 04.5N	134 47.5W	LK82110	GDI	K	BI	28.1
Sitka Muscovite pegmatite (dike) Loney et al, 1967	57 06.0N	134 54.5W	LK8203	PEG	K	MU	41.1
Sitka Muscovite pegmatite (dike) Loney et al, 1967	57 06.0N	134 54.5W	LK8203	PEG	K	MU	42.2
Sitka Muscovite-biotite granodiorite Loney et al, 1967	57 11.0N	134 52.5W	62ABd332	GDI	K	BI	42.6
Sitka Muscovite-biotite granodiorite Loney et al, 1967	57 11.0N	134 52.5W	62ABd332	GDI	K	MU	44.3

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock Meth.	Min. Age(my)
Sitka Biotite granodiorite Loney et al, 1967	57 11.5N	135 49.5W	61ABd713a	GDI K BI	48.6
Sitka Hornblende-biotite tonalite Loney et al, 1967	57 20.5N	134 48.5W	LK8218	TON K HO	105.8
Sitka Hornblende-biotite tonalite Loney et al, 1967	57 20.5N	134 48.5W	LK8218	TON K HO	109.7
Sitka Biotite-hornblende diorite Loney et al, 1967	57 24.0N	135 36.0W	60AHw340	DI K BI	152.
Sitka Biotite-hornblende diorite Loney et al, 1967	57 24.0N	135 36.0W	60AHw340	DI K HO	151.
Sitka North Point Hayes Lanphere et al, 1965	57 29.0N	134 50.0W	62ALe11	SY K BI	119.
Sitka North Point Hayes, impure separate of hornblende and biotite, minimum age Lanphere et al, 1965; Churkin and Eberlein, 1977	57 29.0N	134 50.0W	62ALe11	SY K HO	247.
Sitka Biotite-hornblende diorite Loney et al, 1967	57 32.0N	135 40.0W	61APy535	DI K HO	164.

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Sitka Leucogranodiorite Loney et al, 1967	57 39.5N	134 24.5W	59AHw294	GDI	A	ZI	130.
Sitka Leucogranodiorite Loney et al, 1967	57 39.5N	134 24.5W	59AHw294	GDI	K	HO	107.
Sitka Hornblende-biotite tonalite Loney et al, 1967	57 42.5N	134 31.0W	59APy277	TON	A	ZI	110.
Sitka Boulder of quartz diorite, South Passage Point Lanphere et al, 1965	57 45.0N	134 35.0W	62ALe14A	Q DI	K	HO	275.
Sitka Hornblende-biotite adamellite Loney et al, 1967	57 46.0N	134 24.5W	59AHw295	ADAM	A	ZI	260.
Sitka Hornblende-biotite adamellite Loney et al, 1967	57 46.0N	134 24.5W	59AHw295	ADAM	K	BI	117.
Sitka Island, Tenakee Inlet, minimum age Lanphere et al, 1965; Churkin and Eberlein, 1977	57 46.7N	135 14.0W	62ALe15	SY	K	HO	406.
Sitka Hornblende tonalite Loney et al, 1967	57 50.0N	135 28.0W	61ABd41b	TON	A	HO	114.

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Sitka Hornblende tonalite Loney et al, 1967	57 50.0N	135 28.0W	61ABd41b	TON	A	ZI	110.
Sitka Muscovite pegmatite (dike) Loney et al, 1967	57 52.5N	135 33.0W	61ABd32	PEG	A	ZI	210.
Sitka Muscovite pegmatite (dike) Loney et al, 1967	57 52.5N	135 33.0W	61ABd32	PEG	K	HO	111.
Sitka Hornblende adamellite Loney et al, 1967	57 53.5N	135 15.5W	57ABg64	ADAM	A	ZI	160.
Sitka Hornblende adamellite Loney et al, 1967	57 53.5N	135 15.5W	57ABg64	ADAM	K	HO	144.
Sitka Hornblende adamellite Loney et al, 1967	57 54.5N	135 13.0W	57ALy174a	ADAM	A	ZI	180.
Sitka Hornblende adamellite Loney et al, 1967	57 55.5N	135 01.0W	57ALy153e	ADAM	A	ZI	120.
Sitka Biotite-hornblende adamellite Loney et al, 1967	57 56.5N	135 06.5W	57ALy145	ADAM	A	ZI	150.

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Sitka Biotite-hornblende adamellite Loney et al, 1967	57 56.5N	135 06.5W	57ALy145	ADAM	K	BI	103.
Skagway Biotite granodiorite MacKevett et al, 1974; Berry et al, 1976	59 15.7N	136 00.0W	70AWk5D	GDI	K	BI	30.6
Skagway Biotite-hornblende granodiorite MacKevett et al, 1974; Berry et al, 1976	59 15.9N	136 01.1W	70AWk6A	GDI	K	BI	29.3
Skagway Hornblende-biotite granodiorite MacKevett et al, 1974; Berry et al, 1976	59 16.6N	136 26.3W	70AMk14A-2	GDI	K	BI	111.
Skagway Hornblende-biotite quartz diorite MacKevett et al, 1974; Berry et al, 1976	59 16.7N	136 15.6W	70AMk8A-2	Q DI	K	BI	108.
Skagway Hornblende-biotite quartz diorite MacKevett et al, 1974; Berry et al, 1976	59 16.7N	136 15.6W	70AMk8A-2	Q DI	K	HO	105.
Skagway Hornblende quartz diorite Lowden, 1961; Loney et al, 1967	59 18.0N	135 30.0W	GSC60-34	Q DI	K	BI	30.
Skagway Biotite-hornblende quartz diorite MacKevett et al, 1974; Berry et al, 1976	59 19.1N	135 48.7W	70AMk3C	Q DI	K	HO	33.0

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Skagway Biotite-hornblende quartz diorite MacKevett et al, 1974; Berry et al, 1976	59 19.8N	135 48.7W	70AMk3A	Q DI	K	BI	22.7
Skagway Diorite or amphibolite MacKevett et al, 1974; Berry et al, 1976	59 21.2N	136 20.7W	70AMk10B	DI	K	HO	119.
Skagway Hornblende-biotite quartz diorite MacKevett et al, 1974; Berry et al, 1976	59 27.8N	136 18.1W	70AWk2A	Q DI	K	BI	110.
Skagway Hornblende-biotite quartz diorite MacKevett et al, 1974; Berry et al, 1976	59 27.8N	136 18.1W	70AWk2A	Q DI	K	HO	111.
Skagway Biotite leucogranodiorite Lowden, 1962; Loney et al, 1967	59 30.5N	135 13.5W	GSC61-47	GDI	K	BI	70.
Skagway Biotite leucogranite Lowden, 1962; Loney et al, 1967	59 34.0N	135 11.0W	GSC61-46	GR	K	BI	65.
Skagway Leucogranodiorite MacKevett et al, 1974; Berry et al, 1976	59 35.1N	136 01.8W	70AMk15D	GDI	K	BI	55.5
Skagway Leucogranodiorite MacKevett et al, 1974; Berry et al, 1976	59 35.1N	136 01.8W	70AMk15D	GDI	K	HO	64.2

Table 1. Continued

Quadrangle	Latitude	Longitude	Sample No.	Rock	Meth.	Min.	Age(my)
Taku River Turner Lake, early Pb-A age suspect. Jaffe et al, 1959; Larsen et al, 1958; Matzko et al, 1958	58 17.0N	133 48.0W	55Apr106	GDI	A	ZI	106.
Taku River Hornblende-biotite grandodiorite, early Pb-A age suspect. Matzko et al, 1958; Loney et al, 1967	58 18.5N	133 57.0W	54Apr106	GDI	A	ZI	93.
Taku River Forbes and Engels, 1970; Brew and Ford, 1977	58 41.0N	134 00.0W	EN4	QMON	K	BI	49.6
Taku River Forbes and Engels, 1970; Brew and Ford, 1977	58 44.0N	133 53.0W	PMS2	QMON	K	BI	52.8
Taku River Forbes and Engels, 1970; Brew and Ford, 1977	58 44.0N	133 55.0W	EN2	QMON	K	WR	51.1
Taku River Forbes and Engels, 1970; Brew and Ford, 1977	58 44.0N	133 57.0W	PMS1	QMON	K	BI	48.7
Taku River Forbes and Engels, 1970; Brew and Ford, 1977	58 44.0N	133 59.0W	EN3	QMON	K	WR	46.9

Table 2. Explanation of abbreviations used in Table 1.

ROCK TYPES

ADAM	Adamellite	GR	Granite	SBREC	Sedimentary breccia
AMPH	Amphibolite	GSCH	Greenschist	SCH	Schist
AND	Andesite	HBST	Hornblendite	SY	Syenite
BAS	Basalt	HFLS	Hornfels	TON	Tonalite
BIOT	Biotitite	OTHER	Other	TROND	Trondjemite
DI	Diorite	PEG	Pegmatite	TUFF	Tuff
GAB	Gabbro	Q DI	Quartz diorite	UMAF	Ultramafic
GDI	Granodiorite	QMON	Quartz monzonite	VOL	Volcanic
GNS	Gneiss				

MINERALS

AC	Actinolite	HO	Hornblende	RI	Riebeckite
AM	Amphibole	IC	Isochron	TR	Tremolite
BI	Biotite	MU	Muscovite	WR	Whole rock
GL	Glass	PL	Plagioclase	ZI	Zircon

METHODS

A	Lead-alpha	K	Potassium-argon	P	Uranium-lead techniques
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