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Guy R. Martin — Commissioner
Ross G. Schaff — State Geologist

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This report is preliminary and has not been edited or reviewed for conformity with Alaska Division of Geological and Geophysical Surveys standards.

Alaska Open File Report 83
RADIOMETRIC AGE MAP OF ALASKA -
ALEUTIAN ISLANDS
by
Frederic H. Wilson and
Donald L. Turner

RADIOMETRIC AGE MAP OF ALASKA

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Frederic H. Wilson¹ and Donald L. Turner²

This map includes published, thesis, and open-file radiometric data available to us as of June, 1975. Some dates are not plotted because of inadequate location data in the original references.

The map is divided into five sections, based on 1:1,000,000 scale enlargements of the National Atlas maps of Alaska. Within each section (e.g., southeastern Alaska), radiometric dates are plotted and keyed to 1:250,000 scale quadrangles. Accompanying each map section is table 1, listing map numbers and the sample identification numbers used in DGGGS Special Report 10: Radiometric Dates from Alaska--A 1975 Compilation³. The reader is referred to Special Report 10 for more complete information on location, rock type, dating method, and literature references for each age entry. A listing of dates in Special Report 10 which require correction or deletion is included as table 2. Corrected and additional entries are listed in table 3. The listings in tables 2 and 3 follow the format of Special Report 10. Table 4 is a glossary of abbreviations used for quadrangle name, rock type, mineral dated, and type of dating method used.

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 2. Geophysical Institute and Geology Dept., Univ. of Alaska, Fairbanks, 99701.
 3. Turner, D.L., Grybeck, D.G., and Wilson, F.H., 1975, Radiometric dates from Alaska---A 1975 compilation, Alaska Div. of Geol. and Geophys. Surveys Spec. Rept. 10. (Available from Alaska DGGGS, Box 80007, College, AK., 99701, \$1.00.)

Table 1. Map numbers and corresponding identification numbers used in Special Report 10; listed by 1:250,000 scale quadrangle - Aleutian Islands.

ADAK		PRIBILOF ISLANDS		UTCAK	
<u>Map</u>	<u>Compilation</u>	<u>Map</u>	<u>Compilation</u>	<u>Map</u>	<u>Compilation</u>
1	1 (ADAK 1)	1	P67	1	ASH1
2	10 (ADAK 10)	2	P35	2	ASH2
3	2 (ADAK 2)	3	P38	3	CCR
4	4 (ADAK 4)	4	P5		
5	5 (ADAK 5)	5	P52		
6	6 (ADAK 6)	6	P66		
7	7 (ADAK 7)	7	P10		
8	KAN	8	P11		
9	RDH	9	P12		
		10	P13		
		11	P15		
		12	P19		
		13	P2		
		14	P20		
		15	P21		
		16	P3		
ATKA		RAT ISLANDS			
<u>Map</u>	<u>Compilation</u>	<u>Map</u>	<u>Compilation</u>		
1	ATKA 1	1	AA49 (69AMC-15)		
2	ATKA 2	2	AA50 (69AMC-17)		
		3	AA51 (69AMC-2)		
		4	AA52 (69AMC-11)		
		5	AA46 (WJC 87A 66)		
		6	AA47 (69AMC-12)		
		7	AA48 (WJC-1-67)		
ATTU					
<u>Map</u>	<u>Compilation</u>				
1	3 (ATTU 3)				
2	6 (ATTU 6)				
PORT MOLLER					
<u>Map</u>	<u>Compilation</u>				
1	AA76 (405M)				
2	AA77 (406M)				
2	AA77, (406B)				

Table 3. Corrected and additional entries to Special Report 10.

[illegible]

Table 3. Corrected and additional entries to Special Report 10 (cont.)

SURVY	67/17	7N155/56.5W	005E052N	SCH	K	GI	96.4	72F211	TUR
SURVY	67/05	0N155/55.0W	006E015N	SCH	K	AC	289.1	72F10ARGH	TUR
SURVY	67/05	0N155/55.0W	006E015N	SCH	K	AC	287.1	72F10ARGH	TUR
SURVY	67/05	0N155/55.0W	006E015N	SCH	K	IC	213.1	72F10ARGH	TUR
TAKU	58/44	0N133/55.0W	007E129N	CNOM	K	WP	51.1	EN2	FOR
TAKU	58/44	0N133/59.0W	001F129N	CNOM	K	WR	45.9	EN3	FOR
TAKU	58/41	0N136/00.0W	001F129N	CNOM	K	RI	49.6	EN4	FOR
TAKU	58/44	0N133/57.0W	011E129N	CNOM	K	DI	48.7	PMS1	FOR
TAKU	58/44	0N133/53.0W	010E129N	CNOM	K	BI	52.8	PMS2	FOR
TYNEK	61/18	4N152/42.2W	026E052N	CDI	K	RI	58.1	70AER255	REL
TYNEK	61/18	4N152/42.2W	026E052N	CDI	K	HO	57.6	70AER255	REL
TYNEK	61/40	0N152/05.0W	078E114N	ONON	K	BI	59.4	70AR8-11	REL

PARAGONITE-ACT.

Table 4. Compilation glossary.

QUADRANGLE		UNALAKLEET	UNLAK
ANAK	ADAK	VALDEZ	VALDZ
PORT ALEXANDER	ALEXR	WISEMAN	WISE
AMBLER RIVER	AMBRI		
ANCHORAGE	ANCH		
ATKA	ATKA		
ATTU	ATTU		
BAIRD MTS	BAIRD		
BENDELEREN	BENDE		
BETTLES	BETLE		
BIG DELTA	BIG D		
CANDLE	CANDL		
CAPE MENDENHALL	CAPMN		
CHANDALAR	CHAND		
CIRCLE	CIRCL		
LAKE CLARK	CLARK		
CRAIG	CRAIG		
DIXON ENTRANCE	DIXON		
EAGLE	EAGLE		
FAIRBANKS	FAIR		
MCGRATH	GRATH		
GILKANA	GULK		
MT. HAYES	HAYES		
HEALY	HEALY		
HOOVER RAY	HOJPR		
HUGHES	HUGHS		
IDITAROD	IDITA		
ILLIAMNA	ILLIAM		
JUNEAU	JUNEU		
MT. KATMAI	KATMI		
KENAI	KEVAI		
KETCHIKAN	KETCH		
ST. LAWRENCE	LAWPC		
LIME HILLS	LIME		
LIVENGOOD	LIVEN		
MCCARTHY	MCAIT		
MT. MCKINLEY	MCKIN		
MEDERA	MEDRA		
MT. MICHELSON(S)	MICHL		
PORT MOLLER	MOLLER		
NABESNA	NABES		
NAKNEK	NKNEK		
NOME	NOME		
NUNIVAK	NUNVK		
(OFFSHORE)	OFFSH		
PITRILOF ISLANDS	PRIIR		
PETERSBURG	PTSRG		
RAT ISLANDS	RATIS		
RUBY	RUBY		
SELDOVIA	SELD		
SFLAWIK	SEFLWK		
SEWARD	SEWRD		
SHISMARFF	SHISF		
SHUNGNAK	SHUNG		
SITKA	SITKA		
SKAGWAY	SKAG		
SOLOMON	SOLMN		
SURVEY PASS	SURVY		
TAKU RIVER	TAKU		
TALKEETNA	TALK		
TALKEETNA MOUNTAINS	TALKM		
TANACROSS	TANAC		
TANANA	TANAN		
TELLER	TELLER		
TESHEKOUK	TESHE		
TYONEK	TYNEK		
UGASHIK	UGSHK		
UMNAK	UMNAK		

DATE TYPE	
PR-ALPHA	A
FISSION-TRACK	F
K-AR	K
PR-U, PR-TH, ETC.	P
RR-SR	R

MINERAL DATED	
ACTINOLITE	AC
AMPHIBOLE	AM
APATITE	AP
ANORTHOCLASE	AW
BIOTITE	BI
CHLORITE	CH
CROSSITE	CR
FELDSPAR	FD
GLASS	GL
GLAUCOPHANE	GP
HORNBLEND	HO
ISOCHRON	IC
MICA	MI
MUSCOVITE	MU
PARAGONITE	PA
PHENGITE	PH
PLAGIOCLASE	PL
PYROXENE	PY
RIEBECKITE	RI
SANDINE	SA
SERICITE	SE
SPHENE	SP
WHOLE ROCK	WR
ZIRCON	ZI

ROCK TYPES	
ADAM	ADAMELLITE
AGNS	ADJEN GNEISS
ALSK	ALASKITE
AMPH	AMPHIBOLITE
AND	ANDESITE
ANOR	ANORTHOSITE
APL	APLITE
BAS	BASALT
BIOT	BIOTITITE
DAC	DACITE
DI	DIORITE
DIA	DIABASE
DUN	DUNIT
ECLG	ECLOGITE
FELS	FELSITE
GAB	GABBRO
GDI	GRANODIORITE
GLASS	GLASS
GNLT	GRANULITE
GNS	GNEISS
GNST	GREENSTONE
GR	GRANITE
GPTD	GRAINTOID
GSCH	GREENSCHIST

Table 4. Compilation glossary (cont.)

HRDT	HORNBLENDITE	Q DI	QUARTZ DIORITE
HFLS	HORNFEELS	Q GAB	QUARTZ GABBRO
INTR	INTRUSIVE	Q LAT	QUARTZ LATITE
LAMP	LAMPROPHYTE	Q MON	QUARTZ MONZONITE
LAT	LATITE	RHY	RHYOLITE
LTON	LEUCOTONALITE	SCH	SCHIST
MALIG	MALIGNITE	SS	SANDSTONE
META	METAPELITE	SY	SYENITE
MIG	MIGMATITE	THER	THERALITE
MON	MONZONITE	TON	TONALITE
MYLT	MYLONITE	TRCH	TRACHYTE
PEG	PEGMATITE	TROND	TRONDHEMITE
PERD	PERIDOTITE	TUFF	TUFF
PHYL	PHYLLITE	UMAF	ULTRAMAFIC
PYRX	PYROXENITE	VOL	VOLCANIC
Q BAS	QUARTZ BASALT		

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