

**Table 1. Radiometric ages**

[Method: Ar/Ar, <sup>40</sup>Argon/<sup>39</sup>Argon; FT, Fission-track; K/Ar, Conventional potassium-argon; U/Pb, Uranium-lead. Minerals: AC, Actinolite; AM, Amphibole; AN, Anorthoclase; AP, Apatite; BI, Biotite; CL, Chlorite; HO, Hornblende; IC, Isochron; MI, Mica; MU, Muscovite; PL, Plagioclase; RI Riebeckite; SE, Sericite; SP, Sphene; WR, Whole-rock; ZI, Zircon]

Sample	Map unit	Quadrangle	Latitude (N)	Longitude (W)	Rock type	Method	Mineral	Age (Ma)	Error (Ma)	Reference and notes
A125	Qcs	Cape Mendenhall	59.983	166.367	Basalt	K/Ar	AN	0.03	0.02	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A102	Qcs	Nunivak Island	60.000	166.333	Basalt	K/Ar	WR	.06	.02	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A126	Qcs	Nunivak Island	60.017	166.183	Basalt	K/Ar	AN	.09	.02	Cox and Dalrymple, 1967, Hoare and others, 1968
A96	Qcs	Nunivak Island	60.017	166.2	Basalt	K/Ar	WR	.11	.03	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A114	Qcs	Cape Mendenhall	59.95	166.167	Basalt	K/Ar	AN	.14	.02	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A71	Qcs	Cape Mendenhall	59.978	165.657	Basalt	K/Ar	WR	.28	.06	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A91	Qvb	Nunivak Island	60.033	166.083	Basalt	K/Ar	WR	.23	.09	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A86	Qvb	Nunivak Island	60.017	166.067	Basalt	K/Ar	WR	.29	.05	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A69	Qvb	Nunivak Island	60.053	165.682	Basalt	K/Ar	WR	.30	.07	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A74	Qvb	Cape Mendenhall	59.933	165.562	Basalt	K/Ar	WR	.34	.12	Cox and Dalrymple, 1967, Hoare and others, 1968

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A88	Qvb	Nunivak Island	60.033	166.083	Basalt	K/Ar	WR	.35	.05	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A78	Qvb	Cape Mendenhall	59.8667	165.85	Basalt	K/Ar	WR	.36	.09	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
86ASb 9a	Qvb	Bethel	60.355	159.863	Basalt	K/Ar	WR	.418	.016	Box and others, 1993
A70	Qvb	Nunivak Island	60.017	165.633	Basalt	K/Ar	WR	.50	.06	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A59A	Qvb	Nunivak Island	60.223	165.693	Basalt	K/Ar	WR	.63	.09	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A108	Qvb	Nunivak Island	60	166.233	Basalt	K/Ar	WR	.67	.07	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A97	Qvb	Nunivak Island	60.017	166.267	Basalt	K/Ar	WR	.69	.09	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A101	Qvb	Nunivak Island	60.017	166.317	Basalt	K/Ar	WR	.74	.09	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A61	Qvb	Nunivak Island	60.21	165.682	Basalt	K/Ar	WR	.75	.75	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
74Ahr77	Qvb	Goodnews Bay	59.297	159.97	Basalt	K/Ar	WR	.758	.2	Hoare and Coonrad, 1978, 1980, Box, 1985a
A46	Qvbm	Nunivak Island	60.367	166.1	Basalt	K/Ar	WR	.81	.10	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A48	Qvbm	Nunivak Island	60.348	166.085	Basalt	K/Ar	WR	.86	.08	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A45	Qvbm	Nunivak Island	60.422	166.132	Basalt	K/Ar	WR	.87	.07	Hoare and others, 1968, Mankinen and Dalrymple, 1979

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A35	Qvbm	Nunivak Island	60.365	166.3317	Basalt	K/Ar	WR	.93	.07	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979. Mean of 2 analyses.
A41	Qvbm	Nunivak Island	60.387	166.242	Basalt	K/Ar	WR	.95	.08	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979. Mean of 2 analyses.
A23	Qvbm	Nunivak Island	60.327	166.703	Basalt	K/Ar	WR	1.55	.15	Hoare and others, 1968 (recalc.). Mean of 2 analyses.
A57	Qvbm	Nunivak Island	60.267	165.685	Basalt	K/Ar	WR	1.58	.09	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A51	Qvbm	Nunivak Island	60.323	166	Basalt	K/Ar	WR	1.69	.09	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979. Mean of 2 analyses.
P21	Qpd	Pribilof Islands	56.596	169.514	Basalt	K/Ar	WR	1.63	.06	Cox and others, 1966; Mankinen and Dalrymple, 1979
P52	QTV	Pribilof Islands	57.131	170.291	Basalt	K/Ar	WR	<0.10	--	Cox and others, 1966
P35	QTV	Pribilof Islands	57.195	170.405	Basalt	K/Ar	WR	.124	.058	Average age of splits listed below. Mankinen and Dalrymple, 1979, Lee-Wong and others, 1979
P35	QTV	Pribilof Islands	57.195	170.405	Basalt	K/Ar	WR	.096 .065 .200	.10 .10 .10	Cox and others, 1966; Hoare and others, 1968
P38	QTV	Pribilof Islands	57.184	170.416	Basalt	K/Ar	WR	.33	.04	Cox and others, 1966; Cox and Dalrymple, 1967; Mankinen and Dalrymple, 1979
P38	QTV	Pribilof Islands	57.184	170.416	Basalt	K/Ar	WR	.33 .36	.10 .10	Cox and others, 1966
P11	QTV	Pribilof Islands	56.594	169.474	Basalt	K/Ar	WR	1.82	.07	Cox and others, 1966

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P11	QTV	Pribilof Islands	56.594	169.474	Basalt	K/Ar	WR	1.85	.06	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979, Cox and others, 1966
P20	QTV	Pribilof Islands	56.609	169.527	Basalt	K/Ar	WR	1.85	.07	Cox and others, 1966
P5	QTV	Pribilof Islands	56.580	169.573	Basalt	K/Ar	WR	1.88 1.94	.09 .08	Cox and others, 1966, Mankinen and Dalrymple, 1979
P19	QTV	Pribilof Islands	56.603	169.495	Basalt	K/Ar	WR	1.97	.06	Cox and others, 1966
P3	QTV	Pribilof Islands	56.604	169.566	Basalt	K/Ar	WR	1.97 2.04	.08 .08	Cox and others, 1966, Cox and Dalrymple, 1967, Mankinen and Dalrymple, 1979
P2	QTV	Pribilof Islands	56.605	169.556	Basalt	K/Ar	WR	2.00	.10	Cox and others, 1966, Cox and Dalrymple, 1967, Mankinen and Dalrymple, 1979
P12	QTV	Pribilof Islands	56.598	169.472	Basalt	K/Ar	WR	2.12	.08	Cox and others, 1966, Cox and Dalrymple, 1967, Mankinen and Dalrymple, 1979
P13	QTV	Pribilof Islands	56.597	169.471	Basalt	K/Ar	WR	2.15	.08	Cox and others, 1966, Cox and Dalrymple, 1967, Mankinen and Dalrymple, 1979
P67	QTV	Pribilof Islands	56.583	169.584	Basalt	K/Ar	WR	2.16	.06	Cox and others, 1966
P10	QTV	Pribilof Islands	56.594	169.474	Basalt	K/Ar	WR	2.19	.06	Cox and others, 1966
P15	QTV	Pribilof Islands	56.600	169.486	Basalt	K/Ar	WR	2.19	.08	Cox and others, 1966
P66	QTV	Pribilof Islands	56.578	169.504	Basalt	K/Ar	WR	2.25	.10	Cox and others, 1966
A50	QTab	Nunivak Island	60.317	166.017	Basalt	K/Ar	WR	.87	.07	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979

Sample	Map unit	Quadrangle	Latitude (N)	Longitude (W)	Rock type	Method	Mineral	Age (Ma)	Error (Ma)	Reference and notes
A19	Ttb	Nunivak Island	60.2	166.917	Basalt	K/Ar	WR	3.24	.10	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A6	Ttb	Nunivak Island	60.233	167.295	Basalt	K/Ar	WR	3.36	.10	Hoare and others, 1968, Mankinen and Dalrymple, 1979
A7	Ttb	Nunivak Island	60.233	167.215	Basalt	K/Ar	WR	3.40	.12	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A3	Ttb	Nunivak Island	60.208	167.435	Basalt	K/Ar	WR	4.15	.12	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A2	Ttb	Nunivak Island	60.213	167.458	Basalt	K/Ar	WR	4.25	.12	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A12	Ttb	Nunivak Island	60.225	166.95	Basalt	K/Ar	WR	4.96	.14	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A8	Ttb	Nunivak Island	60.22	167.063	Basalt	K/Ar	WR	4.97	.15	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A11	Ttb	Nunivak Island	60.225	166.95	Basalt	K/Ar	WR	5.01	.15	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A17	Ttb	Nunivak Island	60.212	166.945	Basalt	K/Ar	WR	5.01	.15	Cox and Dalrymple, 1967, Hoare and others, 1968, Mankinen and Dalrymple, 1979
A15	Talb	Nunivak Island	60.22	166.94	Basalt	K/Ar	WR	5.19	.15	Dalrymple and others, 1967, Cox and Dalrymple, 1967, Hoare and others, 1968
A1	Talb	Nunivak Island	60.213	167.458	Basalt	K/Ar	WR	6.28	.18	Dalrymple and others, 1967, Cox and Dalrymple, 1967, Hoare and others, 1968
74Ahr26	Tfi	Hagemeister Is.	58.95	160.01	Rhyodacite	K/Ar	BI	13.00	.50	Wilson, 1977, Hoare and Coonrad, 1978, Box, 1985a

Sample	Map unit	Quadrangle	Latitude (N)	Longitude (W)	Rock type	Method	Mineral	Age (Ma)	Error (Ma)	Reference and notes
G199	Tad	Pribilof Islands	56.575	169.5	Quartz diorite	K/Ar	SE PL	49.5 55.0	2.0 2.2	Silberman and Hopkins, 1976, Hopkins and Silberman, 1978
ISOCHRON	Tad	Pribilof Islands	56.575	169.5	Quartz diorite	K/Ar	IC	51.7	1.9	Silberman and Hopkins, 1976, Hopkins and Silberman, 1978
G200	Tad	Pribilof Islands	56.575	169.5	Quartz diorite	K/Ar	AN CL	52.7 57.2	2.1 2.3	Silberman and Hopkins, 1976, Hopkins and Silberman, 1978
87ACz 75M	Tnr	Bethel	60.766	160.23	Rhyolite	Ar/Ar	RI	54.7	1.6	Box and others, 1993
82JD 450B	TKr	Bethel	60.583	160.272	Rhyolite	K/Ar	WR BI	59.3 62.5	1.8 1.9	Robinson and Decker, 1986; Box and others, 1993
88AMI 12	TKa	Bethel	60.576	160.427	Andesite	Ar/Ar	PL	59.5	12.3	Box and others, 1993
GD5-1771	TKg	Goodnews Bay	59.853	160.813	Dacite	K/Ar	HO	68.7	3.0	Hoare and Coonrad, 1978
B78-1133G	TKg	Hagemeister Is.	58.847	160.232	Diorite	K/Ar	BI	75.0	2.9	Box, 1985a
GC4-1300	TKgr	Goodnews Bay	59.618	160.142	Granite porphyry	K/Ar	HO	60.7	1.8	Wilson and Smith, 1976, Wilson, 1977, Hoare and Coonrad, 1978
87ATf 62	TKgr	Bethel	60.521	159.164	Granite	Ar/Ar	BI	60.8	1.8	Box and others, 1993
74B57	TKgr	Goodnews Bay	59.627	159	Granite	K/Ar	HO BI	63.4 69.6	3.0 2.1	Wilson and Smith, 1976, Wilson, 1977, Hoare and Coonrad, 1978
74AHR51	TKgs	Nushagak Bay	58.897	159.48	Monzonite	K/Ar	BI	71.9	2.0	Wilson, 1977, Hoare and Coonrad, 1978, Box, 1985a
74AHR118	TKqm	Goodnews Bay	59.66	159.672	Quartz monzonite	K/Ar	BI HO	63.7 69.5	2.0 3.0	Wilson and Smith, 1976, Wilson, 1977, Hoare and Coonrad, 1978
87ATf 51	TKqm	Bethel	60.275	159.633	Granite	Ar/Ar	BI	69.8	2.1	Box and others, 1993
87AJm 36a	TKqm	Bethel	60.152	159.936	Granodiorite	Ar/Ar	BI	70.3	2.1	Box and others, 1993
73AHR1	TKqm	Goodnews Bay	59.918	159.915	Granodiorite	K/Ar	BI	71.1	2.1	Wilson and Smith, 1976, Wilson, 1977, Hoare and Coonrad, 1978, Frost and others, 1988

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71AMm45	TKgd	St. Matthew	60.4	172.698	Granodiorite	K/Ar	HO	62.3	2.0	Patton and others, 1975, Silberman and Hopkins, 1976, Wittbrodt and others, 1989
87ATf 72	TKgd	Bethel	60.644	159.661	Granite	Ar/Ar	BI	62.2	1.9	Box and others, 1993
GD1-3154	TKgd	Goodnews Bay	59.843	159.182	Granodiorite	K/Ar	BI AM	62.5 65.2	1.8 1.9	Wilson and Smith, 1976, Wilson, 1977, Hoare and Coonrad, 1978
GB1-3156	TKgd	Goodnews Bay	59.465	159.177	Quartz diorite	K/Ar	HO BI	63.4 69.5	1.8 2.0	Wilson and Smith, 1976, Wilson, 1977, Hoare and Coonrad, 1978
87ATf 56	TKgd	Bethel	60.468	159.409	Granite	Ar/Ar	BI	64.3	1.9	Box and others, 1993
GA5-1310	TKgd	Goodnews Bay	59.172	160.648	Quartz diorite	K/Ar	BI	67.4	2.0	Wilson and Smith, 1976, Wilson, 1977, Hoare and Coonrad, 1978, Box, 1985a
GC1-1381	TKgd	Goodnews Bay	59.665	159.36	Tonalite - Quartz diorite	K/Ar	BI	72.5	2.2	Wilson and Smith, 1976, Wilson, 1977, Hoare and Coonrad, 1978
87ACz 61	TKqd	Bethel	60.941	159.659	Quartz diorite	K/Ar	BI	65.1	2.0	Box and others, 1993
87AJm 271b	TKqd	Bethel	60.394	159.118	Diorite	Ar/Ar	HO	68.0	2.0	Box and others, 1993
GB7-1479a	TKqd	Goodnews Bay	59.347	161.325	Quartz diorite	K/Ar	BI	71.3	2.1	Wilson and Smith, 1976, Wilson, 1977, Hoare and Coonrad, 1978
74ACd 14d	TKm; dike in Ks	Nushagak Bay	58.852	159.978	Diabase	K/Ar	BI	64.6	2.0	Hoare and Coonrad, 1978, Box, 1985a
12-106	Kv	St. Matthew	60.335	172.433	Basalt	K/Ar	WR	52.2	1.6	Wittbrodt and others, 1989
81SB-35b	Kv	Hagemeister Island	58.777	160.787	Andesite	K/Ar	WR	64.5	3.2	Box, 1985a
8106301	Kv	Hagemeister Is.	58.8	160.75	Basalt	K/Ar	WR	64.5	3.2	Globerman, 1985
71APa10	Kv	St. Matthew	60.562	172.942	Basalt	K/Ar	WR	66.5	2.0	Patton and others, 1975, 1976, Silberman and Hopkins, 1976, Wittbrodt and others, 1989
5-29	Kv	St. Matthew	60.583	172.967	Andesite	K/Ar	WR	68.0	2.3	Wittbrodt and others, 1989
8107126	Kv	Hagemeister Island	58.78	160.757	Andesite	K/Ar	WR	68.3	.4	Globerman, 1985, Box, 1985a
8107131	Kv	Hagemeister Island	58.785	160.748	Andesite	K/Ar	WR	68.7	3.7	Globerman, 1985, Box, 1985a

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82JD 435A	Kv	Bethel	60.770	159.107	Andesite	K/Ar	PL WR	69.0 71.4	2.1 2.1	Robinson and Decker, 1986; Box and others, 1993
1-2	Kv	St. Matthew	60.57	172.997	Andesite	K/Ar	WR	69.2	2.1	Wittbrodt and others, 1989
88ASb 99a	Kv	Bethel	60.782	159.170	Dacite	Ar/Ar	BI	69.5	2.1	Box and others, 1993
4-16	Kv	St. Matthew	60.482	172.953	Basalt	K/Ar	WR	73.0	2.2	Wittbrodt and others, 1989
5-33	Kv	St. Matthew	60.583	172.963	Andesite	K/Ar	WR	73.8	2.2	Wittbrodt and others, 1989
86ASb 1	Kv	Bethel	60.323	159.627	Andesite	Ar/Ar	WR	74.3	2.2	Box and others, 1993
5-123	Kv	St. Matthew	60.583	172.963	Andesite	K/Ar	WR	76.0	2.3	Wittbrodt and others, 1989
B78-1125G	Dike in Ks	Hagemeister Is.	58.853	160.213	Andesite	K/Ar	HO	76.6	4.5	Box, 1985a
5-27	Kv	St. Matthew	60.583	172.963	Andesite	K/Ar	WR	76.5	2.3	Wittbrodt and others, 1989
12-105	Kv	St. Matthew	60.335	172.433	Basalt	K/Ar	WR	78.1	2.3	Wittbrodt and others, 1989
5-125	Kv	St. Matthew	60.583	172.963	Andesite	K/Ar	WR	78.7	2.4	Wittbrodt and others, 1989
71APa15	Kv	St. Matthew	60.583	172.975	Basalt	K/Ar	WR	78.7	2.0	Patton and others, 1975, 1976, Silberman and Hopkins, 1976, Wittbrodt and others, 1989
5-31	Kv	St. Matthew	60.583	172.963	Andesite	K/Ar	WR	79.2	2.4	Wittbrodt and others, 1989
71AMm50	Kpd	St. Matthew	60.6533	173.06	Tuff	K/Ar	BI HO	76.0 76.3	2.0 2.0	Patton and others, 1975, 1976, Silberman and Hopkins, 1976, Wittbrodt and others, 1989
87ATf 30	Kg	Bethel	60.577	160.788	Granodiorite	K/Ar	BI	115.0	3.5	Box and others, 1993
88ATF24d	Kg	Bethel	60.158	159.822	Granodiorite	U/Pb	ZI	104-129	--	Box and others, 1993, upper intercept
HD6-2272a	Jum	Hagemeister Is.	58.9112	161.772	Amphibolite	K/Ar	AM	176.4	5.3	Hoare and Coonrad, 1978, Box, 1985a
HD6-1453e	Jum	Hagemeister Is.	58.918	161.775	Amphibolite	K/Ar	AM	186.9	5.6	Hoare and Coonrad, 1978, Box, 1985a
74Ahr112	Jgb	Hagemeister Is.	58.987	160.97	Gabbro	K/Ar	HO	159.3	3.5	Wilson, 1977, Hoare and Coonrad, 1978, Box, 1985a. Matogak, minimum age.
GA7-1450	Jgb	Goodnews Bay	59.022	161.523	Diorite	K/Ar	AM	162.4	4.9	Wilson and Smith, 1976, Wilson, 1977, Hoare and Coonrad, 1978, Box, 1985a. Crater Hill



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B78-1171G	Jgb	Hagemeister Is.	58.93	160.698	Gabbro	K/Ar	HO	174.	8.	Box, 1985a
74Ahr111	Jgb	Hagemeister Is.	58.963	161.05	Gabbro	K/Ar	HO	186.9	6.0	Wilson, 1977, Hoare and Coonrad, 1978, Box, 1985a. Dwindraft Mountain
81SB116b	Jgb / Rod	Hagemeister Is.	58.853	160.99	Hornfels	K/Ar	AM	187.	10.	Box, 1985a Hornfels in Rod associated with Jgb
B78-1152G	Jlgd	Hagemeister Is.	58.615	161.073	Granodiorite	K/Ar	BI or HO?	183.	7.	Box, 1985a; age suspect due to unusual K2O content of mineral dated; see text for map unit Jlgd
89ASb 101	MDv	Bethel	60.178	160.128	Dacite	FT	AP	47.5	6.9	Box and others, 1993
81SB107A	RPmb	Hagemeister Is.	58.843	161.025	Phyllite	K/Ar	MI	150.	8.	Box, 1985a,b
81SB133a	RPmb	Hagemeister Is.	58.752	161.307	Schist	K/Ar	MI	155.	8.	Box, 1985a, b
82SB147	RPvs	Hagemeister Is.	58.637	161.883	Schist	K/Ar	HO	231.2	6.9	Box, 1985a, b
B78-1213	Jgs	Bethel	60.342	160.313	Schist	K/Ar	AC	146.0	15.0	Box and others, 1993
88ML 22b	Ek	Bethel	60.093	160.6	Gneiss	FT	AP	66.6	4.6	Box and others, 1993
DT76-21	Ek	Goodnews Bay	59.92	161.932	Hornblende diorite	K/Ar	HO	122.2	3.6	Turner and others, in press
DT76-57	Ek	Goodnews Bay	59.955	160.898	Biotite-muscovite gneiss	K/Ar	MU BI	127.7 131.9	3.9 3.9	Turner and others, in press
DT75-67	Ek	Goodnews Bay	59.55	161.44	Biotite-muscovite granodiorite gneiss	K/Ar	BI MU	128.0 135.8	3.7 4.0	Turner and others, in press
DT76-58	Ek	Goodnews Bay	59.953	160.893	Hornblende diorite	K/Ar	HO	128.7	3.8	Turner and others, in press; minimum age

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DT75-66	Ek	Goodnews Bay	59.562	161.432	Biotite-hornblende granodiorite gneiss	K/Ar	BI HO	128.9 140.5	3.8 4.1	Turner and others, in press
DT76-41	Ek	Goodnews Bay	59.947	160.912	Biotite-hornblende epidote schist	K/Ar	HO BI	129.6 158.8	3.8 4.7	Turner and others, in press
DT75-79	Ek	Goodnews Bay	59.543	161.593	Biotite-epidote schist	K/Ar	BI	130.4	3.8	Turner and others, in press
DT76-22	Ek	Goodnews Bay	59.903	161.92	Garnet amphibolite	K/Ar	HO	130.6	3.8	Turner and others, in press
DT76-31	Ek	Goodnews Bay	59.922	161.902	Biotite-muscovite gneiss	K/Ar	MU BI	130.6 196.8	3.8 5.8	Turner and others, in press
DT76-52	Ek	Goodnews Bay	59.922	160.887	Quartz muscovite gneiss	K/Ar	MU	130.6	3.9	Turner and others, in press
DT75-64	Ek	Goodnews Bay	59.572	161.442	Biotite-hornblende granodiorite gneiss	K/Ar	BI HO	130.8 141.7	3.8 4.1	Turner and others, in press
DT75-63	Ek	Goodnews Bay	59.577	161.45	Biotite granodiorite gneiss	K/Ar	BI	133.2	3.9	Turner and others, in press
DT76-42	Ek	Goodnews Bay	59.947	160.913	Biotite-muscovite granodiorite gneiss	K/Ar	BI	133.3	4.0	Turner and others, in press
75AFS-18ck	Ek	Goodnews Bay	59.62	161.2	Biotite-bearing amphibolite	K/Ar	HO	133.7	3.9	Turner and others, in press
75AFS-18ak	Ek	Goodnews Bay	59.617	161.205	Biotite-muscovite granodiorite gneiss	K/Ar	MU BI	135.6 143.7	3.9 4.2	Turner and others, in press
DT75-78	Ek	Goodnews Bay	59.54	161.588	Greenschist	K/Ar	AC	137.1	4.0	Turner and others, in press
75AFS-12k	Ek	Goodnews Bay	59.577	161.235	Garnet amphibolite	K/Ar	BI HO	136.5 163.2	3.9 4.8	Turner and others, in press

Sample	Map unit	Quadrangle	Latitude (N)	Longitude (W)	Rock type	Method	Mineral	Age (Ma)	Error (Ma)	Reference and notes
75AFS-35ak	Ek	Goodnews Bay	59.582	161.397	Biotite-hornblende granodiorite	K/Ar	BI HO	138.8 235.5	4.1 6.9	Turner and others, in press
DT76-34	Ek	Goodnews Bay	59.925	161.898	Biotite gneiss	K/Ar	BI	140.8	4.1	Turner and others, in press
DT76-72	Ek	Bethel	60.127	160.567	Biotite-hornblende-epidote-plagioclase rock	K/Ar	BI HO	143.6 153.4	4.2 4.5	Turner and others, in press; biotite is minimum age
DT75-68	Ek	Goodnews Bay	59.547	161.437	Biotite garnet amphibole	K/Ar	HO	144.2	4.2	Turner and others, in press
75AFS-3k	Ek	Goodnews Bay	59.607	161.225	Epidote amphibolite	K/Ar	BI HO	146.3 170.5	4.3 4.9	Turner and others, in press; impure biotite
DT75-81	Ek	Goodnews Bay	59.543	161.593	Biotite-bearing greenschist	K/Ar	AC	146.6	4.3	Turner and others, in press
DT75-73	Ek	Goodnews Bay	59.563	161.382	Biotite-muscovite gneiss	K/Ar	MU	153.2	4.5	Turner and others, in press
DT75-73	Ek	Goodnews Bay	59.563	161.382	Biotite-muscovite gneiss	K/Ar	BI	196.1	5.7	Turner and others, in press
DT76-36	Ek	Goodnews Bay	59.93	161.895	Biotite-muscovite-quartz schist	K/Ar	MU BI	156.5 395.6	4.6 12	Turner and others, in press; impure biotite
DT76-74	Ek	Bethel	60.127	160.567	Biotite-hornblende-epidote rock	K/Ar	BI HO	162.1 328.7	4.7 9.7	Turner and others, in press
75AFS-1k	Ek	Goodnews Bay	59.6117	161.228	Biotite-muscovite gneiss	K/Ar	BI	169.7	4.9	Turner and others, in press
DT75-60	Ek	Goodnews Bay	59.543	161.462	Garnet amphibolite	K/Ar	HO	169.7	5.0	Turner and others, in press
75AFS-22ak	Ek	Goodnews Bay	65.45	161.205	Biotite-hornblende diorite gneiss	K/Ar	BI HO	170.3 197.3 245.3	4.9 5.8 7.2	Turner and others, in press; replicate analyses, 183.9±19.3 average age on biotite; biotite K <sub>2</sub> O very low

Sample	Map unit	Quadrangle	Latitude (N)	Longitude (W)	Rock type	Method	Mineral	Age (Ma)	Error (Ma)	Reference and notes
75AFS-28ak	Ek	Goodnews Bay	59.57	161.442	Biotite-hornblende diorite gneiss	K/Ar	HO	186.6	5.5	Turner and others, in press
DT76-56	Ek	Goodnews Bay	59.97	160.847	Biotite-muscovite-hornblende schist	K/Ar	MU BI	186.9 351.3	5.5 10.3	Turner and others, in press
DT76-46	Ek	Goodnews Bay	59.94	160.923	Biotite-hornblende muscovite schist	K/Ar	HO BI	192.2 223.7	5.6 6.6	Turner and others, in press
75AFS-23ak	Ek	Goodnews Bay	59.65	161.207	Biotite-hornblende diorite gneiss	K/Ar	BI	199.7	5.8	Turner and others, in press
DT76-61	Ek	Goodnews Bay	59.945	160.882	Porphyroblastic amphibolite	K/Ar	HO	201.0	5.9	Turner and others, in press
DT75-83	Ek	Goodnews Bay	59.65	161.21	Biotite-hornblende diorite gneiss	K/Ar	BI	212.6	6.2	Turner and others, in press; analytical data is same as reported for biotite of DT75-82, is suspicious and possibly in error.
DT75-82	Ek	Goodnews Bay	59.65	161.212	Biotite-hornblende diorite gneiss	K/Ar	BI HO	212.6 215.8 217.8	6.2 6.3 6.4	Turner and others, in press; replicate analyses, 214.2±6.3 average age reported for biotite.
DT76-66	Ek	Goodnews Bay	59.902	160.902	Unknown	K/Ar	BI	246.9	7.2	Turner and others, in press; rock type not reported
DT75-74	Ek	Goodnews Bay	59.567	161.385	Garnet amphibole	K/Ar	HO	247.1	7.2	Turner and others, in press
DT75-62	Ek	Goodnews Bay	59.578	161.455	Garnet amphibolite	K/Ar	HO	247.8	7.2	Turner and others, in press
DT76-71	Ek	Bethel	60.095	160.628	Biotite-hornblende gneiss	K/Ar	HO	266	7.8	Turner and others, in press; minimum age
DT76-39	Ek	Goodnews Bay	59.913	160.897	Granodiorite gneiss	K/Ar	BI	292.4	8.6	Turner and others, in press
DT76-62	Ek	Goodnews Bay	59.905	160.903	Amphibolite	K/Ar	HO	406.4	18	Turner and others, in press

Sample	Map unit	Quadrangle	Latitude (N)	Longitude (W)	Rock type	Method	Mineral	Age (Ma)	Error (Ma)	Reference and notes
50Ahr 747a	Ek	Goodnews Bay	59.725	161.108	Quartz diorite	K/Ar	BI HO	439.2 450.2 540.1 544.2	13 13 15.9 16.1	Turner and others, in press; replicate analyses, 444.7±13 Ma average age for biotite, 542.1±16 Ma average age for hornblende
DT75-69	Ek	Goodnews Bay	59.563	161.38	Garnet amphibole	K/Ar	HO	466.3	13.7	Turner and others, in press
DT75-69	Ek	Goodnews Bay	59.563	161.38	Garnet amphibole	Ar/Ar, total fusion	HO	478	4.2	Turner and others, in press; disturbed spectrum
DT75-70	Ek	Goodnews Bay	59.558	161.38	Biotite quartz monzonite gneiss	Ar/Ar, total fusion	BI	487	4.3	Turner and others, in press; spectra suggests partial argon loss
DT75-70	Ek	Goodnews Bay	59.558	161.38	Biotite quartz monzonite gneiss	K/Ar	BI	498.0	14.7	Turner and others, in press
DT76-76	Ek	Goodnews Bay	59.857	160.903	Garnet amphibolite	K/Ar	HO	637	19	Turner and others, in press
DT76-70	Ek	Bethel	60.093	160.6	Biotite amphibolite	K/Ar	BI HO	685 915	20 27	Turner and others, in press
DT76-70	Ek	Bethel	60.093	160.6	Biotite amphibolite	Ar/Ar, Plateau	HO	936	36	Paul Layer, written commun., 2006; rerun of conventional K/Ar age, shows disturbed spectra, indicating conventional age is suspect
DT76-70r	Ek	Bethel	60.093	160.6	Biotite amphibolite	Ar/Ar, Plateau	HO	974	10.7	Paul Layer, written commun., 2006; Replicate rerun of conventional K/Ar age, shows disturbed spectra, indicating conventional age is suspect
DT75-76	Ek	Goodnews Bay	59.547	161.403	Garnet amphibole	K/Ar	HO	1037 1063	31 32	Turner and others, in press; replicate analyses, 1049±32 average age
DT75-76	Ek	Goodnews Bay	59.547	161.403	Garnet amphibole	Ar/Ar, Total Fusion	HO	1124	8	Turner and others, in press; replicate conventional K/Ar analyses, 1049±32 average age; 40/39 plateau age 1.16 Ga.
50Ahr49	Ek	Goodnews Bay	59.55	161.333	Garnet amphibole	K/Ar	HO	1088.	32.	R.B. Forbes, D.L. Turner, and J.M. Hoare, written commun., 1973
DT76-69a	Ek	Goodnews Bay	59.9	160.897	Garnet amphibolite	K/Ar	HO	1770	53	Turner and others, in press

Sample	Map unit	Quadrangle	Latitude (N)	Longitude (W)	Rock type	Method	Mineral	Age (Ma)	Error (Ma)	Reference and notes
DT76-69a	Ek	Goodnews Bay	59.9	160.897	Garnet amphibolite	Ar/Ar, Plateau	HO	1778	89	Paul Layer, written commun., 2006; rerun of conventional K/Ar age
DT75-86	Ek	Goodnews Bay	59.648	161.205	Quartz monzonite orthogneiss	U/Pb	SP	1770		Turner and others, in press. Interpreted as age of metamorphism.
DT75-86	Ek	Goodnews Bay	59.648	161.205	Quartz monzonite orthogneiss	U/Pb	ZI	2050	30	Turner and others, in press. Interpreted as an emplacement age.
88ML22b	Ek	Bethel	60.093	160.600	Granitic gneiss	U/Pb	ZI	2040	74	Box and others, 1993, upper intercept
87ASB125b	Ek	Bethel	60.300	160.334	Trondhjemite gneiss	U/Pb	ZI	2070	16	Box and others, 1993, upper intercept
DT75-61	Ek	Goodnews Bay	59.543	161.458	Retrograded pyroxene granulite	K/Ar	BI	2231 2312	67 70	Turner and others, in press; replicate analyses, 2271±70 average age
DT75-71	Ek	Goodnews Bay	59.555	161.372	Pyroxene granulite	K/Ar	BI	1921 2159 2531 2409	57.6 65 76 73	Turner and others, in press; four replicate analyses, 2255±271.2 average age
DT75-72	Ek	Goodnews Bay	59.56	161.355	Pyroxene granulite	K/Ar	BI	2434 2500 2432 2441 2564	73 77 73 74 77	Turner and others, in press; five replicate analyses, 2474±75 average age
DT75-72	Ek	Goodnews Bay	59.56	161.355	Pyroxene granulite	Ar/Ar, Plateau	BI	2520		Turner and others, in press; Five replicate conventional K/Ar analyses, 2474±75 average age
89AJm 34	K <sub>fs</sub>	Bethel	60.056	159.257	Sandstone	FT	AP	29.7	4.2	Box and others, 1993
89ASb 38	Jvs	Bethel	60.088	159.269	Sandstone	FT	AP	90.5	17.0	Box and others, 1993
44-7		Offshore	58.648	177.215	Basalt	K/Ar	WR	.38 .33	.05 .05	Davis and others, 1989; mean age 0.35±.05 Ma
43-2		Offshore	58.648	177.215	Basalt	K/Ar	WR	.33 .50	.15 .15	Davis and others, 1989; mean age 0.42±.15 Ma
44-3		Offshore	58.648	177.215	Basalt	K/Ar	WR	.60	.20	Davis and others, 1989

Sample	Map unit	Quadrangle	Latitude (N)	Longitude (W)	Rock type	Method	Mineral	Age (Ma)	Error (Ma)	Reference and notes
DR5-34		Offshore	56.383	169.625	Basalt	K/Ar	WR	.77	.08	Simpson and others, 1979, Lee-Wong and others, 1979. Dredge site south of St. George Is., approximate location
DR5-8		Offshore	56.383	169.625	Basalt	K/Ar	WR	.84	.08	Simpson and others, 1979, Lee-Wong and others, 1979. Dredge site south of St. George Is., approximate location
44-12		Offshore	58.648	177.215	Basalt	K/Ar	WR	1.10	.20	Davis and others, 1989