Table 1. Radiometric age data for the map of the Cook Inlet Region, south central Alaska.

[Samples listed by map units and ordered from south to north and east to west. Methods: A, Lead-alpha, a largely discredited technique; K/Ar, conventional potassium-argon; 40/39, $^{40}Ar/^{39}Ar$; Rb/Sr, rubidium-strontium; Nd/Sm, neodymium-samarium, U/Pb, uranium-lead]

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
KL-027, KL081	Qod 215	Anchorage	61.3922	149.8550	Tephra	40/39r	Glass	0.378	0.067	Goose Bay tephra, compsite of 3 analyses	Reger and others, 1995
84AYb 71	Qv 300	Mount Katmai	58.0217	155.565	Andesite	K/Ar	Plagioclase	0.582	0.085	Lava flow	Shew and Lanphere, 1992
84ARj 134B	Qv 300	Mount Katmai	58.0783	155.4183	Andesite	K/Ar	Plagioclase	0.389	0.071	Lava flow	Shew and Lanphere, 1992
84AYb 65	Qv 300	Mount Katmai	58.1033	155.42	Dacite	K/Ar	Plagioclase	0.394	0.046	Lava flow	Shew and Lanphere, 1992
85AYb 223	Qv 300	Mount Katmai	58.14	155.5533	Andesite	K/Ar	Plagioclase	0.954	0.109	Andesite porphyry flow	Shew and Lanphere, 1992
83ARj 143	Qv 300	Mount Katmai	58.4867	154.2867	Andesite	K/Ar	Plagioclase	0.446	0.388	Lava flow	Shew and Lanphere, 1992
84AYb 24	Qv 300	Afognak	58.63	153.895	Andesite	K/Ar	Whole-rock	0.506	0.182	Basaltic andesite plug or dome	Shew and Lanphere, 1992
84ARj 142B	Qv 300	Afognak	58.6567	153.63	Andesite	K/Ar	Plagioclase	0.884	0.246	Lava flow	Shew and Lanphere, 1992
G-24-2 n.1	Qv 300	Afognak	58.95	153.4633	Andesite	K/Ar	Whole-rock	0.70 1.00	2.1 3.0		Magoon and others, 1976
85CNS 26	Qv 300	Tyonek	61.075	152.1267	Andesite	K/Ar	Whole-rock	2.08	0.2	Mt. Spurr, isolated remnant, minimum age due to minor alteration, 2.08 ± .20 my	Turner and Nye, 1986; Nye and Turner, 1990
AMS-A02	Qv 300	Tyonek	61.2433	152.1167	Andesite	K/Ar	Whole-rock	0.112	0.008	Mt. Spurr, also called 85CNS24	Nye and Turner, 1990; Turner and Nye, 1986
AMS-B01	Qv 300	Tyonek	61.245	152.3083	Andesite	K/Ar	Whole-rock	0.255	0.052	Mt. Spurr, also called 85CNS59	Nye and Turner, 1990, Turner and Nye, 1986

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
AMS-B02	Qv 300	Tyonek	61.2467	152.3083	Andesite	K/Ar	Whole-rock	0.155	0.014	Mt. Spurr	Nye and Turner, 1990
AMS-B05	Qv 300	Tyonek	61.2483	152.3083	Andesite	K/Ar	Whole-rock	0.065	0.015	Possible sill, also called 85CNS55B	Nye and Turner, 1990, Turner and Nye, 1986
AMS-A04	Qv 300	Tyonek	61.255	152.145	Andesite	K/Ar	Whole-rock	0.134	0.021	Minimum age based on observation of groundmass glass, also called 85CNS22	Nye and Turner, 1990, Turner and Nye, 1986
AMS-B08	Qv 300	Tyonek	61.2567	152.2967	Andesite	K/Ar	Whole-rock	0.139	0.009	Mt. Spurr, also called 85CNS42	Nye and Turner, 1990, Nye and Turner, 1986
AMS-A05	Qv 300	Tyonek	61.2583	152.1467	Andesite	K/Ar	Whole-rock	0.110	0.006	Mt. Spurr, also called 85CNS21	Nye and Turner, 1990, Nye and Turner, 1986
AMS-A06	Qv 300	Tyonek	61.26	152.1467	Andesite	K/Ar	Whole-rock	0.100	0.011	Mt. Spurr, mean of 2 replicates, also called 85CNS37	Nye and Turner, 1990, Turner and Nye, 1986
AMS-B10	Qv 300	Tyonek	61.26	152.2967	Andesite	K/Ar	Whole-rock	0.119	0.016	Mean of 3 replicates, Mt. Spurr, also called 85CNS40	Nye and Turner, 1990, Turner and Nye, 1986
AMS-A08	Qv 300	Tyonek	61.2667	152.1567	Andesite	K/Ar	Whole-rock	0.059	0.014	Mt. Spurr; mean of 3 replicates, also called 85CNS35	Nye and Turner, 1990, Turner and Nye, 1986
01PH 411A	Qv 300	Tyonek	61.3389	152.0917	Volcanic rock	40/39 Plareau	Whole-rock	1.8	0.5	Holocene? Spurr volcanic rocks, 9 fractions, 76% ^{39}Ar release	Haeussler and others (in prep, 2008)
78AR 290DK	Qad 402	Kenai	60.7167	152.6667	Andesite	K/Ar	Whole-rock	0.763	0.017	Dark band in banded andesite	Reed, Lanphere and Miller, 1992
78AR 290LT	Qad 402	Kenai	60.7167	152.6667	Andesite	K/Ar	Whole-rock	0.627	0.024	Light band in banded andesite	Reed, Lanphere and Miller, 1992
90AR 99	Qad 402	Kenai	60.77	152.7	Andesite	K/Ar	Whole-rock	0.887	0.015	Estimated latitude and longitude	Reed, Lanphere and Miller, 1992

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
84AYb 69	QTv 450	Mount Katmai	58.07	155.7317	Andesite	K/Ar	Whole-rock	2.45	0.21	Lava flow	Shew and Lanphere, 1992
85AYb 214	QTv 450	Mount Katmai	58.0783	155.8067	Andesite	K/Ar	Plagioclase	2.00	0.11	Basaltic andesite porphyry	Shew and Lanphere, 1992
86ARj 62	QTv 450	Mount Katmai	58.3867	155.2267	Andesite	K/Ar	Plagioclase	2.64	0.04	Basaltic andesite porphyry flow	Shew and Lanphere, 1992
DT75-213	Tkn 560	Tyonek	61.2483	151.1017	Ash	K/Ar	Plagioclase	15.8 15.9	1.8 1.5	Chuitna River section; Beluga Coal field. Ash bracketed by Seldovian flora.	Turner and others, 1980a
DT75-212	Ts 540	Seldovia	59.77	151.1333	Ash	K/Ar	Plagioclase	32.2 30.1	1.9 1.8	33m stratigraphically above DT75-211. Sterling Formation; age may be too old due to detrital contamination.	Turner and others, 1980a
DT75-211	Ts 540	Seldovia	59.77	151.1333	Ash	Fission-track	Zircon	5.4	0.6	20-40m stratigraphically above DT75-210. Sterling Formation.	Turner and others, 1980a
DT75-211	Ts 540	Seldovia	59.77	151.1333	Ash	K/Ar	Plagioclase	11.7 14.1	0.9 1.1	20-40m stratigraphically above DT75-210. Sterling Formation; age may be too old due to detrital contamination.	Turner and others, 1980a
DT75-210	Ts 540	Seldovia	59.77	151.1333	Ash	K/Ar	Plagioclase	7.2	0.6	Sterling Formation, Clamgulchian Stage	Turner and others, 1980a
DT75-209b	Ts 540	Seldovia	59.7967	151.1083	Tuff	K/Ar	Plagioclase	9.1 8.2	0.7 0.8	Sterling? Formation, age may be too old due to detrital contamination.	Turner and others, 1980a
DT75-208	Ts 540	Seldovia	59.7967	151.1117	Tuff	K/Ar	Hornblende Plagioclase	4.7 4.2	0.6 1.4	35m stratigraphically higher than DT75-206. Sterling Formation	Turner and others, 1980a

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
DT75-207	Ts 540	Seldovia	59.7967	151.1117	Tuff	Fission-track	Zircon	4.9	0.8	24m stratigraphically higher than DT75-206. Sterling Formation	Turner and others, 1980a
DT75-207	Ts 540	Seldovia	59.7967	151.11167	Tuff	K/Ar	Plagioclase	7.6 7.5	0.6 0.6	24m stratigraphically higher than DT75-206. Believed to be too old due to detrital contamination.	Turner and others, 1980a
DT75-206	Ts 540	Seldovia	59.7967	151.1117	Ash	Fission-track	Zircon	5.6	0.9	Composite of four thin beds, Sterling Formation	Turner and others, 1980a
DT75-206	Ts 540	Seldovia	59.7967	151.1117	Ash	K/Ar	Plagioclase	4.6 8.4	0.7 0.7	Composite of four thin beds. Age may be too old due to detrital contamination.	Turner and others, 1980a
6-25-77-1	Ts 540	Seldovia	59.8233	151.0417	Ash	K/Ar	Plagioclase	6.9	0.5	Sterling Formation, Clamgulchian Stage	Turner and others, 1980a
7-14-73-3	Ts 540	Kenai	60.0683	151.6467	Ash	Fission-track	Zircon	8.5	1.0	Kenai Peninsula, Sterling Formation. Age revised in Turner and others (1980).	Triplehorn and others, 1977; Turner and others, 1980a
7-14-73-3	Ts 540	Kenai	60.0683	151.6467	Ash	K/Ar	Plagioclase	8.9	1.0	Kenai Peninsula, Sterling Formation. Age revised in Turner and others (1980).	Triplehorn and others, 1977; Turner and others, 1980a
7-13-73-9	Ts 540	Kenai	60.1858	151.4617	Ash	K/Ar	Plagioclase	7.0	0.7	Kenai Peninsula, location revised, Sterling Formation. Age revised in Turner and others (1980).	Triplehorn and others, 1977; Turner and others, 1980a
7-13-73-6	Ts 540	Kenai	60.205	151.4333	Ash	K/Ar	Hornblende Plagioclase	7.4 8.8	0.7 0.5	Kenai Peninsula, location revised, Sterling Formation. Age revised in Turner and others (1980).	Triplehorn and others, 1977; Turner and others, 1980a
DT75-201	Ts 540	Kenai	60.205	151.435	Tuff	K/Ar	Hornblende Plagioclase	5.0 5.9	0.8 0.5	Crystal tuff, Sterling Formation. Each is ean of 2 splits	Turner and others, 1980a
DT75-200	Ts 540	Kenai	60.2358	151.4008	Ash	Fission-track	Zircon	6.60	0.7	Sterling Formation, Clamgulchian Stage	Turner and others, 1980a

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
DT75-203	Tb 545	Seldovia	59.7033	151.2783	Tuff	Fission-track	Apatite	12.9	5.1	Crystal vitric tuff mostly altered to clay..	Turner and others, 1980a
DT75-203	Tb 545	Seldovia	59.7033	151.2783	Tuff	K/Ar	Plagioclase	8.8	0.9	Crystal vitric tuff mostly altered to clay. Mean of 2 analyses.	Turner and others, 1980a
7-21-73-5	Tb? 545	Seldovia	59.7058	151.28	Ash	Fission-track	Zircon	8.1	1.0	Age revised in Turner and others (1980).	Triplehorn and others, 1977; Turner and others, 1980a
DT75-202	Tb 545	Seldovia	59.71	151.2383	Tuff	K/Ar	Plagioclase	7.2	1.3	Crystal vitric tuff.	Turner and others, 1980a
DT75-204	Tb 545	Seldovia	59.7117	151.2683	Ash	Fission-track	Zircon	7.6	0.7	Crystal vitric tuff,.	Turner and others, 1980a
DT75-204	Tb 545	Seldovia	59.7117	151.2683	Ash	K/Ar	Plagioclase	8.1	0.7	Mean of 2 analyses	Turner and others, 1980a
7-22-73-4	Tb? 545	Seldovia	59.7617	151.1692	Ash	Fission-track	Zircon	8.1	1.0	Age revised in Turner and others (1980).	Triplehorn and others, 1977; Turner and others, 1980a
7-22-73-4	Tb? 545	Seldovia	59.7617	151.1692	Ash	K/Ar	Plagioclase	8.1	0.8	Age revised in Turner and others (1980).	Triplehorn and others, 1977; Turner and others, 1980a
7-21-73-1	Tb? 545	Seldovia	59.7683	151.1575	Ash	Fission-track	Zircon	8.8	1.0	Age revised in Turner and others (1980).	Triplehorn and others, 1977; Turner and others, 1980a
7-21-73-1	Tb? 545	Seldovia	59.7683	151.1575	Ash	K/Ar	Plagioclase	11.3	0.7	Age revised in Turner and others (1980).	Triplehorn and others, 1977; Turner and others, 1980a
01PH 409A	Twf 855	Tyonek	61.2894	151.9364	Tuff	U/Pb	Zircon	43.4	0.2	Andesite tuff in West Foreland Formation, 3 concordant, overlapping fractions, 4 fractions run	Haeussler and others (in prep, 2008)

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
BIL99-14-C2	Tw 870	Talkeetna Mountains	62.0403	147.6103	Dacite	40/39	Biotite	55.6	0.3	Pseudo-plateau age on dacite clast in Wishbone Formation	Cole and others, 2006
BC98-7-C5	Tw 870	Anchorage	61.9792	147.7375	Granite	40/39 Plateau	Biotite	169.3	0.9	Granite clast in Wishbone Formation	Cole and others, 2006
77AGz-Ar3	Tar 890	Anchorage	61.695	149.7183	Basalt	K/Ar	Whole-rock	50.0	2.5	Approximate location, basalt flow	Silberman and Grantz, 1984; Winkler, 1992
77AGz-Ar10	Tar 890	Anchorage	61.75	149.24	Basalt	K/Ar	Whole-rock	46.1	2.8	Approximate location, basalt dike	Silberman and Grantz, 1984, Winkler, 1992
76ACy 19	Tar 890	Anchorage	61.7722	149.1722	Metagraywacke	K/Ar	Biotite	67.5	2.4	Metamorphosed graywacke	Csejtey and others, 1978; Winkler, 1992
78ASi-M19	Tar 890	Anchorage	61.8083	149.9067	Basalt	K/Ar	Whole-rock	56.2	1.7	Approximate location	Silberman and Grantz, 1984; Winkler, 1992
78ASi-M21	Tar? 890	Anchorage	61.8483	149.77	Basalt	K/Ar	Whole-rock	51.8	1.6	Approximate location, incorrect sample ID. in Winkler, 1992	Silberman and Grantz, 1984; Winkler, 1992
79AGz-38A	Tar 890	Anchorage	61.925	148.4783	Rhyolite	K/Ar	Whole-rock	45.5	1.8	Approximate location	Silberman and Grantz, 1984; Winkler, 1992
79AGz-38B	Tar 890	Anchorage	61.925	148.4783	Rhyolite	K/Ar	Potassium Feldspar	51.4	1	Ash flow tuff, alkali feldspar. Approximate location	Silberman and Grantz, 1984; Winkler, 1992
78ASi-M23	Tar 890	Anchorage	61.93	148.5	Rhyolite	K/Ar	Whole-rock	50.5	1.5	Arkose Ridge Formation, approximate location, tuff	Silberman and Grantz, 1984, Winkler, 1992
6-27-77-6	Tch 900	Anchorage	61.7717	148.935	Tuff	Fission-track	Zircon	53.1	1.3	Ash parting in coal bed no. 5, Evan Jones mine, crystal vitric tuff	Triplehorn and others, 1984, Winkler, 1992

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
6-27-77-6	Tch 900	Anchorage	61.7717	148.935	Tuff	K/Ar	Plagioclase	55.1	1.7	Ash parting in coal bed no. 5, Evan Jones mine, crystal vitric tuff, concordant	Triplehorn and others, 1984, Winkler, 1992
8-7-78-8	Tch 900	Anchorage	61.7717	148.935	Tuff	K/Ar	Plagioclase	52.2	1.6	Premier Group coal bed no. 5, Evan Jones coal mine, crystal vitric tuff	Triplehorn and others, 1984, Winkler, 1992
8-7-78-8	Tch 900	Anchorage	61.7717	148.935	Tuff	Fission-track	Zircon	52.8	1.5	Premier Group coal bed no. 8, Evan Jones coal mine, crystal vitric tuff	Triplehorn and others, 1984, Winkler, 1992
8-7-78-4	Tch 900	Anchorage	61.7717	148.935	Tuff	K/Ar	Plagioclase	55.8	1.7	Premier Group coal bed no. 8, Evan Jones coal mine, crystal vitric tuff	Triplehorn and others, 1984, Winkler, 1992
8-7-78-4	Tch 900	Anchorage	61.7717	148.935	Tuff	Fission-track	Zircon	43.5	1.4	Premier Group coal bed no. 8, Evan Jones coal mine, age inconsistent with others, crystal vitric tuff	Triplehorn and others, 1984, Winkler, 1992
M-25-88	TKd 1012	Afognak	58.2333	153.0417	Intrusive rock	Fission-track	Zircon	55		Mean age of individual crystals is 56 Ma; dike cutting Shuyak Formation., elevation 0m	Clendenen, 1991
n.a.	TKd 1301	Seldovia	59.3195	151.2917	Felsic dike	40/39	White mica	57.3	0.1	Port Dick prospect, hydrothermal alteration preferred date from single step (1000° C) and 67.8 % of gas	Haeussler and others, 1995
88ADw 230	TKd 1011	Seldovia	59.3933	150.665	Intermediate dike	40/39 Isochron	Hornblende	57.0	0.22	Leucocratic porphyry dike that cuts the McHugh Complex near the head of Seldovia Bay.	Bradley and others, 1992; 1999; 2000
93ASB 66	TKd 2401	Seldovia	59.3938	151.2186	Basaltic andesite	40/39 Plateau	Hornblende	115.0	1.7	Hornblende-phyric basaltic andesite dike cutting graywacke of McHugh Complex 4km SE of the head of Tutka Bay.	Bradley and others, 1999; 2000

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
K/Ar5	TKd 1602	Lake Clark	60.2772	154.8378	Andesite	K/Ar	Biotite	62.7	1.9	Augite andesite porphyry	Eakins and others, 1978
77E 216	TKd 1602	Lake Clark	60.37	155.2033	Dacite	K/Ar	Biotite	59.50	1.8	Biotite dacite	Eakins and others, 1978
82BB289	TKd 1600	Lake Clark	60.3833	153.8833	Mafic dike	K/Ar	Hornblende	79.6	2.4	Dike cutting Tlikakila Complex, Lake Clark B-3 quadrangle, approximate location, T.3N., R.27W., Section 1	Wallace and others, 1989
2203N	TKd 1011	Seward	60.6667	149.7500	Felsic dike	K/Ar	Whole-rock	52.7	1.6	Hydrothermally altered felsic dike, approximate location, Kenai Star Mine	Silberman and others, 1981; Mitchell and others, 1981; Haeussler and others, 1995
2237B	TKd 1011	Seward	60.8000	149.6667	Granite	K/Ar	Muscovite	53.2	1.6	Hydrothermally altered albite-granite dike, approximate location, Kenai Star Mine	Silberman and others, 1981; Mitchell and others, 1981; Haeussler and others, 1995
91AKU 137	TKd 1301	Anchorage	61.0481	149.1078	Felsic Intrusion	40/39 Plateau	Mica	54.1	.1	Crow Pass felsic intrusion, minor argon loss, cooling age	Haeussler and others (1995) in: Bradley and others, 2000
80AMS 34	TKd 1301	Anchorage	61.0533	149.1217	Dacite	K/Ar	Muscovite	54.5	1.6	Dacite dike	Nelson and others, 1985, Winkler, 1992
80KMS 32I	TKd 1301	Anchorage	61.0533	149.1217	Dacite	K/Ar	Whole-rock	54.8	2.7	Dacite dike	Nelson and others, 1985, Winkler, 1992
92SN 07A	TKd 1301	Anchorage	61.0781	147.5029	Felsic Dike	40/39 Plateau	Biotite	38.6	.6	Miners Bay	Nelson and others, 1999
92SN 09	TKd 1301	Anchorage	61.0827	147.4758	Felsic dike	40/39 Average	Biotite	40	1	Miners Bay. Age from disturbed spectrum, weighted average	Nelson and others, 1999
CKA-1	TKd 1301	Anchorage	61.2717	149.3033	Felsic rock	K/Ar	Whole-rock	50.2	2.5	Felsic sill	Updike and Ulery, 1988, Winkler, 1992
CKA-2	TKd 1301	Anchorage	61.32	149.3167	Felsic rock	K/Ar	Whole-rock	50.0	2.6	Felsic dike	Updike and Ulery, 1988, Winkler, 1992

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
01PH 413B	TKd 1012	Tyonek	61.5451	152.1696	Mafic dike	40/39 Plateau	Whole-rock	55.8	0.5	7 fractions, 95% ^{39}Ar released	Haeussler and others (in prep, 2008)
81BS 116C	TKd 1301	Seward	60.6155	149.5680	Felsic dike	K/Ar	Whole-rock	52.5	1.6	Dike, Oracle Mine, cutting Valdez Group (Kvs)	Nelson and others, 1985; Bradley and others, 1992
02PH 459B	TKd 1012	Tyonek	61.6422	152.0575	Diabase	40/39 Plateau	Whole-rock	55.2 56.5	2.3 0.9	Diabase dike from dike swarm, replicate analysis, 4 fractions, 69% ^{39}Ar release Replicate analysis, 5 fractions, 83% ^{39}Ar release	Haeussler and others (in prep, 2008)
L & N 8	TKd 1301	Anchorage	61.6467	147.98	Dacite	Fission-track	Zircon	49.6	6.8	Dacite dike	Little and Naeser, 1989, Winkler, 1992
L & N 9	TKd 1301	Anchorage	61.66	147.91	Dacite	Fission-track	Zircon	47.3	5.3	Dacite dike	Little and Naeser, 1989, Winkler, 1992
02PH 332B	TKd 1012	Tyonek	61.6699	152.0827	Basalt	40/39 Plateau	Whole-rock	51.6 52.0	2.1 0.8	Plagioclase basalt dike, replicate analysis, 5 fractions, 86% ^{39}Ar release Replicate analysis, 4 fractions, 63% ^{39}Ar release; stair step up-no plateau	Haeussler and others (in prep, 2008)
L & N 6	TKd 1301	Anchorage	61.6833	147.8167	Dacite	Fission-track	Zircon	47.8	7.0	Oxidized dacite dike	Little and Naeser, 1989, Winkler, 1992
L & N 7	TKd 1301	Anchorage	61.6833	147.8333	Dacite	Fission-track	Zircon	42.9	5.5	Oxidized dacite dike	Little and Naeser, 1989, Winkler, 1992
02PH 461B	TKd 1012	Tyonek	61.6868	152.0753	Mafic dike	40/39 Plateau	Whole-rock	57.0 57.9	0.8 0.9	Replicate analysis, 4 fractions, 79% ^{39}Ar release Replicate analysis, 5 fractions, 79% ^{39}Ar release	Haeussler and others (in prep, 2008)
L & N 3	TKd 1301	Anchorage	61.6967	147.715	Dacite	Fission-track	Zircon	41.3	6.0	Dacite dike	Little and Naeser, 1989, Winkler, 1992
02PH 334C	TKd 1012	Tyonek	61.7112	152.3290	Mafic dike	40/39 Plateau	Whole-rock	51.0	1.0	Mafic dike swarm dike, 4 fractions, 91% ^{39}Ar release	Haeussler and others (in prep, 2008)

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
02PH 342C	TKd 1012	Tyonek	61.7301	152.3342	Diabase	40/39 Plateau	Whole-rock	55.0	1.2	Diabase dike from dike swarm, 6 fractions, 86% ^{39}Ar release	Haeussler and others (in prep, 2008)
78ASi-M22A	TKd 1301	Anchorage	61.75	148.5333	Rhyolite	K/Ar	Whole-rock	37.5	1.2	Rhyolite stock, approximate location	Silberman and Grantz, 1984, Winkler, 1992
81AWk 51B	TKd 1012	Anchorage	61.755	148.275	Basalt	K/Ar	Whole-rock	38	2	Basalt dike, very low K2O, reset	Winkler, 1992
81AWk 49A	TKd 1012	Anchorage	61.755	148.33	Basalt	K/Ar	Whole-rock	130	6	Basalt dike	Winkler, 1992
78ASi-M6	TKd 1301	Anchorage	61.7667	148.52833	Rhyolite	K/Ar	Whole-rock	40.0	1.6	Rhyolite dike	Silberman and Grantz, 1984, Winkler, 1992
02PH 336B	TKd 1012	Tyonek	61.7699	152.4027	Mafic dike	40/39 Plateau	Whole-rock	57.1 58.0	3.3 0.9	Replicate analysis, 4 fractions, 79% ^{39}Ar release Replicate analysis, 4 fractions, 70% ^{39}Ar release	Haeussler and others (in prep, 2008)
78ASi-M8	TKd 1301	Anchorage	61.7733	148.505	Dacite	K/Ar	Whole-rock	43.5	1.7	Dacite dike	Silberman and Grantz, 1984, Winkler, 1992
MLS 5	TKd 1601	Anchorage	61.7767	149.42	Lamprophyre	K/Ar	Hornblende	66.2	2.0	Lamprophyre dike in tonalite	Silberman and others, 1978b, Winkler, 1992
L & N 1	TKd 1301	Anchorage	61.7783	147.4967	Dacite	Fission-track	Zircon	36.8	4.8	Dacite dike	Little and Naeser, 1989, Winkler, 1992
79AG-112	TKd 1301	Anchorage	61.7917	147.5717	Dacite	K/Ar	Whole-rock	45.5	2.3	Dacite stock, approximate location	Silberman and Grantz, 1984, Winkler, 1992
78ASi-M45	TKd 1012	Anchorage	61.8367	148.0933	Basalt	K/Ar	Whole-rock	40.9	1.6	Basalt sill, approximate location	Silberman and Grantz, 1984, Winkler, 1992
79AGz 102	TKd 1012	Talkeetna Mountains	62.0583	148.0	Intrusive rock	K/Ar	Whole-rock	46.7	2.3	Plug, approximate location	Silberman and Grantz,1984

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
01JP35A	TKd 1301	Talkeetna Mountains	62.3047	148.6214	Rhyolite	40/39 Plateau	Whole Rock	31.1	0.5	Vitric rhyolite intrusion. No isochron determined. Humped plateau, suggesting disturbance.	Oswald, 2006
99Pe 21	TKd 1301	Talkeetna Mountains	62.3901	149.0628	Felsite	40/39 Plateau	Biotite	52.1	0.4	Felsite or rhyodacite? flow	Drake and Layer, 2001
01JP05A	TKd 1301	Talkeetna Mountains	62.565	148.8899	Dacite	40/39 Plateau	Hornblende	44.6	1.1	Porphyritic dacite intrusion. Isochron age 45.0±1.0 Ma	Oswald, 2006
6-27-1	Tb 1025	Iliamna	59.0733	154.0417	Basalt	K/Ar	Whole-rock	4.40 5.10	0.5 1.0		Magoon and others, 1976; Detterman and Reed, 1980
79AGz 116	Tmf 1070	Talkeetna Mountains	62.1	148.16667	Tuff	K/Ar	Whole-rock	43.6	2.2	Pyroclast in tuff breccia, approximate location	Silberman and Grantz, 1984
77AMb 122	Tmv 1081	Afognak	58.88	153.2967	Andesite	K/Ar	Hornblende	29.3	8.4	Sill	Shew and Lanphere, 1992
GT8	Tmv 1081	Iliamna	59.11	154.94	Andesite	K/Ar	Whole-rock	31.30	0.9		Thrupp and Coe, 1986
GT4	Tmv 1081	Iliamna	59.64	154.45	Andesite	K/Ar	Plagioclase	33.80	6.8		Thrupp and Coe, 1986
GT9	Tmb 1087	Iliamna	59.31	154.62	Andesite	K/Ar	Whole-rock	29.50	1.4		Thrupp and Coe, 1986
GT10	Tmb 1082	Lake Clark	60.57	154.34	Basalt	K/Ar	Whole-rock	44.4	1.7		Thrupp and Coe, 1986
79AGz 112	Temv 1103	Talkeetna Mountains	62.0	148.2217	Basalt	K/Ar	Whole-rock	60.1	4.6	Basalt flow, approximate location, suspect age due to low K_2O	Silberman and Grantz, 1984

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
79AGz 107	Temv 1103	Talkeetna Mountains	62.0733	147.7983	Andesite	K/Ar	Whole-rock	48.4	2.4	Andesite flow, approximate location	Silberman and Grantz, 1984
79AGz 106	Temv 1103	Talkeetna Mountains	62.125	147.7633	Basalt	K/Ar	Whole-rock	55.5	3.5	Basalt flow, approximate location	Silberman and Grantz, 1984
75ASj 526	Temv 1103	Talkeetna Mountains	62.2808	148.7238	Andesite	K/Ar	Whole-rock	56.3	2.5		Csejtey and others, 1978, Hillhouse and others, 1985
01JP40A	Temv 1103	Talkeetna Mountains	62.2953	148.667	Basalt	40/39 Plateau	Whole Rock	46.1	0.4	Isochron age 46.0±0.5 Ma. Very low calculated percent radiogenic argon.	Oswald, 2006
75ASj 520	Temv 1103	Talkeetna Mountains	62.4772	149.4917	Andesite	K/Ar	Hornblende	50.4	2.0		Csejtey and others, 1978, Hillhouse and others, 1984, 1985
00BP02	Temv 1103	Talkeetna Mountains	62.4780	148.7839	Basalt	40/39	Whole-rock	44.4	0.2	Basalt flow	J.M. Schmidt, written commun., 2008
01JP10D	Temv 1103	Talkeetna Mountains	62.5889	148.8662	Basalt	40/39 Plateau	Whole Rock	44.9	1.0	Isochron age 44.8±1.0 Ma	Oswald, 2006
01JP20B	Temv 1103	Talkeetna Mountains	62.5889	148.8662	Basalt	40/39 Plateau	Whole Rock	21.6	2.1	Isochron age 25.5±5.8 Ma. Discordance between plateau and isochron suggests sample was highly disturbed and therefore age is questionable.	Oswald, 2006
75ASj 521B	Temv 1103	Talkeetna Mountains	62.59	148.8945	Andesite	K/Ar	Whole-rock	51.3	2.5		Csejtey and others, 1978, Hillhouse and others, 1984, 1985
8-TMA3-1	Temv 1103	Talkeetna Mountains	62.0375	147.8842	Andesite	40/39	Whole-rock	45.5	0.3	Pseudo-plateau age; isochron age of 38 Ma	Cole and others, 2006
GLAC99-17	Temv 1103	Talkeetna Mountains	62.0219	147.9850	Basalt	40/39 Plateau	Whole-rock	45.6	5.1		Cole and others, 2006
STM1-85	Temv 1103	Talkeetna Mountains	62.0456	147.7239	Basaltic andesite	40/39 Plateau	Whole-rock	48.3	1.6		Cole and others, 2006

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
00BP01	Tfv 1121	Talkeetna Mountains	62.4780	148.7839	Rhyodacite	40/39	White mica	45.2	0.5	Rhyodacite dome. Total gas isochron 46.4±0.1 Ma	J.M. Schmidt, written commun., 2008
81AMH 65A	Tfv 1121	Anchorage	61.3867	147.5367	Dacite	K/Ar	Whole-rock	43.6	1.6	Dacite dike	Nelson and others, 1985, Winkler, 1992
70ACs 423	Tfv 1121	Anchorage	61.065	149.7967	Dacite	K/Ar	Hornblende	34.8	2.0	Dike or sill, age recalculated using constants of Steiger and Jager (1977)	Berry and others, 1976; MacKevett, 1976; 1978, Clark and others, 1976; Winkler, 1992
2-TMA3-3	Tfv 1121	Talkeetna Mountains	62.0389	147.9139	Rhyolite	40/39	Whole-rock	44.1	0.2	Pseudo-plateau age, disturbed age spectrum	Cole and others, 2006
7-TMA3-6	Tfv 1121	Talkeetna Mountains	62.0417	147.9017	Rhyolite	40/39 Plateau 40/39	Whole-rock K-feldspar	35.6 33.7	0.2 0.4	Well defined plateau and isochron age; K-feldspar yielded pseudo-plateau age	Cole and others, 2006
GLA99-18c	Tfv 1121	Talkeetna Mountains	62.0219	147.9942	Rhyolite	40/39	Whole-rock	37.9	0.2	Pseudo-plateau age	Cole and others, 2006
99ANS-9A	Tfv 1121	Talkeetna Mountains	62.0472	148.0200	Dacite	40/39 Plateau	Whole-rock	39.9	0.7	Well defined plateau and isochron age	Cole and others, 2006
											Cole and others, 2006
8-TMA3-1	1003	Talkeetna Mountains	62.0375	147.8842	Andesite	40/39	Whole-rock	45.5	0.3	Pseudo-plateau age; isochron age of 38 Ma	Cole and others, 2006
90WG 143F	Tpv 1170	Tyonek	61.8792	152.3361	Basalt	40/39 Average	Whole-rock	57.9	1.9	Maximum age thought to be about 65 Ma	Layer and Solie, 2008
01PH 414A	Tpv 1170	Tyonek	61.6275	152.2295	Tuff	40/39 Plateau	Whole-rock	56.9	0.7	Crystal tuff, 8 fractions, 94% ^{39}Ar release	Haeussler and others (in prep, 2008)
02PH 462A	Tpv 1170	Tyonek	61.7174	151.9910	Tuff	U/Pb	Zircon	61.9	0.3	Crystal lithic tuff, 2 concordant, overlapping fractions; 4 run in all	Haeussler and others (in prep, 2008)
90WG 154	Tpv 1170	Tyonek	61.8694	152.2386	Volcanic rock	40/39 Plateau	Whole-rock	62.1	0.4		Layer and Solie, 2008

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
90MR 117C	Tpv 1170	Tyonek	61.8829	152.3017	Basalt	40/39 Average	Whole Rock	66.0	0.9		Layer and Solie, 2008
90DNS 31	Tpv 1170	Tyonek	61.9256	151.9880	Andesite	40/39 Isochron	Whole-rock	60.82	0.43	Location given as Porcupine butte	Solie and Layer, 1993
90DNS 31	Tpv 1170	Tyonek	61.9256	151.9880	Andesite	40/39 Plateau	Whole-rock	60.5	0.6	Location given as Porcupine butte	Layer and Solie, 2008
99ANS-18A	Tpv 1170	Talkeetna Mountains	62.0242	147.8611	Andesite	40/39	Whole-rock	45.7	1.4		Cole and others, 2006
99ANS-17a	Tpv 1170	Talkeetna Mountains	62.0825	147.8256	Tuff	40/39 Plateau	Alkali feldspar	59.0	0.3	Andesitic tuff, plateau age; quality not mentioned; a biotite analysis from this sample had no plateau but showed evidence of the 59 Ma age	Cole and others, 2006; S.W. Nelson, USGS ret., personal comm. 4/18/01
02PH 348A	TKft 1615	Tyonek	61.9026	151.8227	Tuff	40/39 Plateau	Whole-rock Hornblende	58.3 89.7	1.0 3.0	Massive crystal-lithic tuff, 7 fractions, 82% ^{39}Ar release 3 fractions, 61% ^{39}Ar release	Haeussler and others (in prep, 2008)
01PH 415A	Kv 2225	Tyonek	61.6519	152.2207	Rhyolite	40/39 Plateau	Hornblende	122.4	1.5	Flow-banded rhyolite, 7 fractions, 85% ^{39}Ar released	Haeussler and others (in prep, 2008)
02PH 348A	Kv 2225	Tyonek	61.9026	151.8227	Tuff	40/39 Plateau	Whole-rock Hornblende	58.3 89.7	1.0 3.0	Massive crystal-lithic tuff, 7 fractions, 82% 39Ar release 3 fractions, 61% 39Ar release	Haeussler and others (in prep, 2008)
02PH 317A	Kv 2225	Tyonek	61.9860	151.5237	Tuff	40/39 Plateau	Whole-rock	98.2	0.4	Crystal-lithic tuff, 4 fractions, 61% ^{39}Ar release	Haeussler and others (in prep, 2008)
99JS 48B	Kv 2225	Talkeetna Mountains	62.2691	149.0267	Metarhyodacite	40/39 Plateau	Biotite White mica	100.5 132.8	0.7 0.7	Plateau was not flat. Biotite "severely altered", strongly discordant with co-existing white mica. Porphyritic quartz-eye metarhyodacite	Drake and Layer, 2001

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
83APb 30	Tpi 1250	Mount Katmai	58.11	154.6833	Granodiorite	K/Ar	Biotite	5.00	0.18	Chloritized biotite, minimum age, pluton	Shew and Lanphere, 1992
84ARj 79A	Tpi 1250	Mount Katmai	58.2783	154.5	Granodiorite	K/Ar	Biotite	2.45	0.07	Serpent Tongue pluton	Shew and Lanphere, 1992
79H9	Tpi 1250	Afognak	58.7	153.6217	Quartz diorite	K/Ar	Biotite	4.2	0.2	Dike or sill	Shew and Lanphere, 1992
77AEg 74	Tpi 1250	Afognak	58.865	153.4133	Granodiorite	K/Ar	Biotite	4.8	0.5	Dike or sill	Shew and Lanphere, 1992
84AEm 18A	Tpi 1250	Afognak	58.6117	153.8433	Andesite	K/Ar	Whole-rock	8.22	0.25	Basaltic andesite porphyry sill	Shew and Lanphere, 1992
84ADt 95	Tpi 1250	Afognak	58.635	153.5917	Andesite	K/Ar	Plagioclase	7.72	0.54	Andesite(?) sill	Shew and Lanphere, 1992
83AR 28	Toegr 1290	Mount Katmai	58.78	154.965	Quartz diorite	K/Ar	Biotite Hornblende	35.8 35.3	1.1 1.1	Alaska-Aleutian Range batholith	Shew and Lanphere, 1992
A123	Toegr 1273	Mount Katmai	58.8083	154.63	Granodiorite	K/Ar	Biotite	29.1	0.9	Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976; Shew and Lanphere, 1992
67AR 570	Toegr 1273	Mount Katmai	58.8283	154.73	Granodiorite	K/Ar	Hornblende	26.7	0.8	Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976; Shew and Lanphere, 1992
83AR 29	Toegr 1273	Mount Katmai	58.8333	154.9117	Granodiorite	K/Ar	Biotite	37.6	1.1	Alaska-Aleutian Range batholith	Shew and Lanphere, 1992
A113	Toegr 1273	Mount Katmai	58.8717	154.5817	Granodiorite	K/Ar	Biotite	27.4	0.8	Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Shew and Lanphere, 1992
83AR 22	Toegr 1273	Mount Katmai	58.8767	154.99	Granodiorite	K/Ar	Biotite	29.2	0.9	Alaska-Aleutian Range batholith	Shew and Lanphere, 1992

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
66ALe 5	Toegr 1273	Mount Katmai	58.895	154.8183	Granodiorite	K/Ar	Biotite Hornblende	28.2 26.0	0.8 0.8	Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977). Reverse discordant	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Shew and Lanphere, 1992
83AR 19	Toegr 1273	Mount Katmai	58.95	154.8133	Granodiorite	K/Ar	Biotite	26.6	0.8	Alaska-Aleutian Range batholith	Shew and Lanphere, 1992
83AR 18	Toegr 1292	Mount Katmai	58.96	154.7383	Quartz diorite	K/Ar	Hornblende	34.3	1.2	Alaska-Aleutian Range batholith	Shew and Lanphere, 1992
67AR 571	Toegr 1275	Mount Katmai	58.855	154.765	Quartz diorite	K/Ar	Biotite Hornblende	27.8 26.1	0.6 0.8	Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977). Reverse discordant	Reed and Lanphere, 1972; 1973; Magoon and others, 1976; Shew and Lanphere, 1992
67AR 563	Toegr 1275	Mount Katmai	58.9183	154.5817	Quartz diorite	K/Ar	Biotite	26.8 25.6	0.8 0.8	Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976; Shew and Lanphere, 1992
83AR 18	Toegr 1275	Mount Katmai	58.96	154.7383	Quartz diorite	K/Ar	Biotite	27.5	0.8	Alaska-Aleutian Range batholith	Shew and Lanphere, 1992
66AR 1289	Toegr 1275	Iliamna	59.0533	154.6517	Quartz diorite	K/Ar	Biotite Hornblende	35.6 37.0	n.a.	Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and Reed, 1980
66ALe 23	Toegr 1290	Lake Clark	60.04	154.17	Quartz monzonite	K/Ar	Biotite	43.9		Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972
66ALe 25	Toegr 1275	Lake Clark	60.415	153.61	Quartz monzonite	K/Ar	Biotite	39.6		Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976
70AR 159	Toegr 1290	Lake Clark	60.705	153.28	Granodiorite	K/Ar	Biotite Hornblende	38.6 39.3	1.1 1.9	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1973; Magoon and others, 1976

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
68AR 251	Toegr 1290	Lake Clark	60.7233	153.5383	Granodiorite	K/Ar	Biotite Hornblende	39.4 41.9	1.1 1.3	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1973; Magoon and others, 1976
CHK00-1	Toegr 1290	Talkeetna Mountains	62.0544	148.1911	Granite	40/39 Plateau	K-feldspar	39.0	0.4	Fine-grained granite	Cole and others, 2006
L & N 2	Toegr 1300	Anchorage	61.7517	148.5083	Granodiorite	K/Ar	Hornblende	37.7	2.2		Little, 1988, Little and Naeser, 1989, Winkler, 1992
L & N 2	Toegr 1300	Anchorage	61.7517	148.5083	Granodiorite	Fission-track	Zircon	37.3	4.7		Little, 1988, Little and Naeser, 1989, Winkler, 1992
70AR 181	Toegr 1290	Lake Clark	60.7683	153.3367	Granodiorite	K/Ar	Biotite	34.8	1	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1973; Magoon and others, 1976
W4A	Toegr 1300	Anchorage	61.7917	149.325	Granite	K/Ar	Muscovite	56.6	n.a.	Altered granite, Bullion Mountain	Silberman and others, 1978a, b
68AR 248	Toegr 1290	Lake Clark	60.8383	153.5817	Quartz monzonite	K/Ar	Biotite	38.6	1.1	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1973; Magoon and others, 1976
70AR 165	Toegr 1290	Lake Clark	60.8683	153.415	Granodiorite	K/Ar	Biotite	37.5	1.0	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976
68AR 245	Toegr 1290	Lake Clark	60.93	153.345	Quartz monzonite	K/Ar	Biotite	34.6	1.3	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1973; Magoon and others, 1976
68AR 244	Toegr 1275	Lake Clark	60.9467	153.545	Granodiorite	K/Ar	Biotite Hornblende	31.9 36.3	0.9 1.8	Age recalculated using constants of Steiger and Jager (1977). Discordant	Reed and Lanphere, 1969; 1973; Magoon and others, 1976; Nelson and others, 1983
70AR 104	Toegr 1292	Talkeetna	62.7972	152.1528	Granodiorite	K/Ar	Biotite Hornblende	37.1 39.8	1.1 1.6	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; 1974, Reed and Nelson, 1977, 1980

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
70AR 109	Toegr 1292	Talkeetna	62.8187	151.6555	Granodiorite	K/Ar	Biotite Hornblende	35.2 36.6	0.9 1.4	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; 1974, Reed and Nelson, 1977, 1980
70AR 1-12	Toegr 1292	Talkeetna	62.8738	151.5738	Granodiorite	K/Ar	Biotite Hornblende	33.2 36.3	0.9 1.6	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; 1974, Reed and Nelson, 1977, 1980
70AR 127	Toegr 1292	Talkeetna	62.8867	151.787	Quartz diorite	K/Ar	Biotite Hornblende	35.3 39.5	1.0 1.4	Age recalculated using constants of Steiger and Jager (1977). Discordant	Reed and Lanphere, 1972; 1973; 1974, Reed and Nelson, 1977, 1980
69AR 328	1307	Tyonek	61.2117	152.9183	Quartz monzonite	K/Ar	Biotite	53.9	1.5	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973
66ALe 28	1308	Tyonek	61.2167	152.6183	Quartz diorite	K/Ar	Biotite Hornblende	50.5 51.1 63.0	n.a.	Age recalculated using constants of Steiger and Jager (1977). Probably discordant.	Reed and Lanphere, 1969
M2-1Z	Tpgr 1320	Afognak	58.2017	153.2067	Intrusive rock	Fission-track	Apatite	64		Afognak pluton, elevation 0m	Clendenen, 1991
M-25-88	Tpgr 1320	Afognak	58.2333	153.0417	Intrusive rock	Fission-track	Apatite	55		Dike cutting Shuyak Formation., elevation 0m	Clendenen, 1991
90ADW 809	Tpgr 1320	Seldovia	59.343	151.8212	Andesite	40/39 Plateau	Amphibole	58.64	0.52	Andesite dike, might have intruded Port Graham Formation near Port Graham	Lytwyn and others, 2000
88ACy 9	Tpgr 1320	Seldovia	59.4733	150.3367	Granodiorite	40/39 Isochron	Biotite	54.2	0.08	Nuka pluton.	Bradley and others, 1999; 2000; Lytwyn and others, 2000
88ACy 9	Tpgr 1320	Seldovia	59.4733	150.3367	Granodiorite	U/Pb	Monazite	56	.5	Nuka pluton.	Bradley and others, 2000

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
92PH 454B	Tpgr 1320	Seldovia	59.5428	150.1806	Granite	40/39 Plateau	Biotite	53.7	0.1	Thunder Bay granitic sill, slightly disturbed spectrum	Haeussler and others 1995; Bradley and others, 2000
Paguna	Tpgr 1320	Seldovia	59.7083	150.135	Granodiorite	40/39 Plateau	n.a.	53.4	1.5	Paguna stock, approximate location.	Bradley and others, 1999
91ADw 55g	Tpgr 1320	Seldovia	59.8828	150.4638	Granodiorite	40/39 Plateau	Biotite	54.2	1.1	Chernof Stock.	Bradley and others, 2000
92AKu 71b	Tpgr 1320	Seldovia	59.9774	150.1611	Granodiorite	40/39 Plateau	Biotite	53.2	1.1	Tustemena pluton.	Bradley and others, 1999; 2000
92PH 215C	Tpgr 1320	Anchorage	61.0803	148.275	Granite	40/39 Plateau	Mica	52.8	0.1	Granite at Homestake mine, minor argon loss, cooling age	Haeussler and others (1995) in: Bradley and others, 2000
92PH 215D	Tpgr 1320	Anchorage	61.0803	148.275	Granite	40/39 Plateau	White mica	53.7	0.1	Homestake Mine, hydrothermally altered granite, minor argon loss	Haeussler and others, 1995
02PH 410A	Tpgr 1340	Tyonek	61.2915	152.0274	Quartz monzonite	U/Pb	Zircon	58.8	0.5	Three concordant, overlapping fractions, 4 fractions run	Haeussler and others (in prep, 2008)
70AR 195	Tpgr 1340	Tyonek	61.2917	152.0183	Quartz monzonite	K/Ar	Biotite	58.4	1.7	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976
01PH 419A	Tpgr 1340	Tyonek	61.3298	152.0520	Quartz monzonite	40/39 Plateau	Hornblende	55.5	1.9	10 fractions, 91% ^{39}Ar release	Haeussler and others (in prep, 2008)
70AR 191	Tpgr 1340	Tyonek	61.3317	152.5767	Quartz monzonite	K/Ar	Biotite	57.0	1.6	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973
70AR 200	Tpgr 1340	Tyonek	61.425	151.955	Quartz monzonite	K/Ar	Biotite	58.0	1.6	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976
70AR 194	Tpgr 1340	Tyonek	61.4583	152.6333	Granite	K/Ar	Biotite	57.4	1.6	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972, 1973

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
70AR 199	Tpgr 1340	Tyonek	61.4945	152.0125	Quartz monzonite	K/Ar	Biotite	59.8	1.7	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976
02PH 413A	Tpgr 1340	Tyonek	61.5451	152.1696	Granite	U/Pb	Zircon	57.3	0.3	Three concordant, overlapping fractions; 5 run in all	Haeussler and others (in prep, 2008)
02PH 385A	Tpgr 1340	Tyonek	61.5585	150.9107	Granodiorite	40/39 Plateau	Hornblende	57.7 58.3	1.5 1.1	Hornblende-biotite granodiorite, replicate analysis, 4 fractions, 76% ^{39}Ar release Replicate analysis, 2 fractions, 67% ^{39}Ar release	Haeussler and others (in prep, 2008)
90DNS 62	Tpgr 1340	Tyonek	61.6927	152.0561	Granite	40/39 Average	Biotite	61.9	0.7		Layer and Solie, 2008
90WG 121	Tpgr 1340	Tyonek	61.7906	151.9093	Quartz monzonite	40/39 Plateau	Hornblende	53.7	0.4		Layer and Solie, 2008
90DNS 17	Tpgr 1340	Tyonek	61.8591	151.8734	Granite	40/39 Plateau	Hornblende	54.7	0.6	Porphyritic granite porphyry	Layer and Solie, 2008
67AR 404	Tpgr 1340	Talkeetna	62.4425	152.8133	Quartz monzonite	K/Ar	Biotite	57.6	1.6	Cathedral pluton. Age recalculated using constants of Steiger and Jager (1977).	Reed and Lanphere, 1972; 1973; Reed and Nelson, 1977; 1980; Lanphere and Reed, 1985
70AR 114	Tpgr 1340	Talkeetna	62.6022	151.5453	Quartz monzonite	K/Ar	Biotite	56.6	1.6	Kahiltna pluton. Age recalculated using constants of Steiger and Jager (1977).	Reed and Lanphere, 1972; 1973; Reed and Nelson, 1977; 1980; Lanphere and Reed, 1985
75ACy 7	Tpgr 1340	Talkeetna Mountains	62.625	149.41	Quartz monzonite	K/Ar	Biotite	58.6	1.8		Csejtey and others, 1978; Hillhouse and others, 1984

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
70AR 121	Tpgr 1340	Talkeetna	62.7005	152.6072	Quartz monzonite	K/Ar	Biotite	57.9	1.6	Ruth pluton. Age recalculated using constants of Steiger and Jager (1977).	Reed and Lanphere, 1972; 1973; Reed and Nelson, 1977; 1980; Lanphere and Reed, 1985; Hillhouse and others, 1985
70AR 112	Tpgr 1340	Talkeetna	62.7103	151.1745	Quartz monzonite	K/Ar	Muscovite Biotite	55.9 57.1	1.6 1.6	Kahiltna pluton. New muscovite measurement published in Lanphere and Reed, 1985; old analysis was 53.6 Ma. Biotite age recalculated using constants of Steiger and Jager (1977).	Reed and Lanphere, 1972; 1973; Reed and Nelson, 1977; 1980; Lanphere and Reed, 1985
75ACy 2	Tpgr 1340	Talkeetna Mountains	62.7628	149.9388	Quartz monzonite	K/Ar	Biotite	56.3	1.7		Csejtey and others, 1978, Hillhouse and others, 1984
67AR 427	Tpgr 1340	Talkeetna	62.837	152.202	Quartz monzonite	K/Ar	Biotite	57.4	1.6	Tonzona pluton. Age recalculated using constants of Steiger and Jager (1977).	Reed and Lanphere, 1972; 1973; Reed and Nelson, 1977; 1980; Lanphere and Reed,1985
70AR 116	Tpgr 1340	Talkeetna	62.898	150.5722	Quartz monzonite	K/Ar	Biotite	57.6	1.5	Ruth pluton. Age recalculated using constants of Steiger and Jager (1977).	Reed and Lanphere, 1972; 1973; Reed and Nelson, 1977; 1980; Lanphere and Reed, 1985; Hillhouse and others, 1985
70AR 115	Tpgr 1340	Talkeetna	62.9375	150.9033	Quartz monzonite	K/Ar	Biotite	56.7	1.6	McKinley pluton. Age recalculated using constants of Steiger and Jager (1977).	Reed and Lanphere, 1972; 1973; Reed and Nelson, 1977; 1980; Lanphere and Reed, 1985

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
70AR 117	Tpgr 1340	Talkeetna	62.998	150.3972	Quartz monzonite	K/Ar	Biotite	57.1	1.5	Ruth pluton. Age recalculated using constants of Steiger and Jager (1977).	Reed and Lanphere, 1972; 1973; Reed and Nelson, 1977; 1980; Lanphere and Reed, 1985; Hillhouse and others, 1985
75ACy 92	Tpgr 1340	Talkeetna Mountains	62.9972	149.3967	Quartz monzonite	K/Ar	Biotite	57.8	1.7		Csejtey and others, 1978; Hillhouse and others, 1984
66AR 1393	Tme 1350	Lake Clark	60.1383	154.07	Granodiorite	K/Ar	Biotite Hornblende	62.8 61.0		Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Nelson and others, 1983
K/Ar2	Tme 1350	Lake Clark	60.3075	154.6433	Granodiorite	K/Ar	Biotite	56.2	1.7	Hornblende biotite granodiorite	Eakins and others, 1978
69AR 330	Tme 1350	Tyonek	61.26	152.7633	Granodiorite	K/Ar	Biotite Hornblende	54.7 60.7	2.1 2.3	Age recalculated using constants of Steiger and Jager (1977). Discordnat.	Reed and Lanphere, 1972, 1973
73ACy 101	Tme 1350	Talkeetna Mountains	62.3117	149.7755	Tonalite	K/Ar	Biotite	54.8	1.6		Csejtey and others, 1978
75ACy 146	Tme 1350	Talkeetna Mountains	62.957	148.805	Granodiorite	K/Ar	Biotite	58.6	1.8		Csejtey and others, 1978, Hillhouse and others, 1984
TT-1-72	Tme 1350	Talkeetna Mountains	62.9745	148.4305	Granodiorite	K/Ar	Biotite	58.7	1.7	Age recalculated using constants of Steiger and Jager (1977)	Csejtey and others, 1978, Turner and Smith, 1974
90WG 119	Tpd 1360	Tyonek	61.7606	151.8975	Diorite	40/39 Average	Whole-rock	55.9	0.5		Layer and Solie, 2008
90DNS 7	Tpd 1360	Tyonek	61.8376	152.0187	Diorite	40/39 Isochron 40/39 Plateau	Biotite	60.78 61.2	0.42 0.4	Location given as west of Dickason Mountain. Isochron shows slight excess Argon	Solie and Layer, 1993; Layer and Solie, 2008

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
66ALe 29	TKg 1658	Tyonek	61.21	152.3817	Quartz monzonite	K/Ar	Biotite	59.7		Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; Magoon and others, 1976
69AR 393	TKg 1658	Tyonek	61.2433	152.5133	Quartz monzonite	K/Ar	Biotite Hornblende	54.4 65.2	1.6 1.9	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972, 1973
70AEr 255	TKg 1658	Tyonek	61.3067	152.7033	Granodiorite	K/Ar	Biotite Hornblende	59.6 59.1	1.7 1.7	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973
01PH 420A	TKg 1656	Tyonek	61.3614	152.1672	Granite	40/39 Plateau	Biotite	62.5	0.8	Hornblende granite, 11 fractions, 93% ^{39}Ar release	Haeussler and others (in prep, 2008)
69AR 383	TKg 1658	Tyonek	61.365	152.945	Quartz monzonite	K/Ar	Biotite	62.0	1.6	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973
70AR 200	TKg 1658	Tyonek	61.425	151.955	Quartz monzonite	K/Ar	Hornblende	60.2	1.8	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976
69AR 239	TKg 1658	Tyonek	61.44	152.94	Quartz monzonite	K/Ar	Biotite Hornblende	61.7 56.9	1.8 1.7	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973
02PH 329A	TKg 1656	Tyonek	61.4615	151.3570	Granite	40/39 Plateau	Biotite	59.3	0.2	Fine-grained biotite granite, 8 fractions, 82% ^{39}Ar release	Haeussler and others (in prep, 2008)
01PH 415A	TKg 1656	Tyonek	61.6519	152.2207	Granite	40/39 Plateau	Biotite	60.4	0.8	8 fractions, 80% ^{39}Ar released	Haeussler and others (in prep, 2008)
70AR-8-11	TKg 1658	Tyonek	61.6667	152.0833	Quartz monzonite	K/Ar	Biotite	60.5	2.4	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976
02ADW 313A	TKg 1656	Tyonek	61.6674	152.3029	Granite	U/Pb	Zircon	60.5	0.5	Four concordant fractions	Haeussler and others (in prep, 2008)
69AR 207	TKg 1658	Tyonek	61.705	152.9233	Granodiorite	K/Ar	Biotite Hornblende	62.1 64.2	1.8 2.5	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972, 1973

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
02PH 426A	TKg 1656	Tyonek	61.7336	152.0739	Granite	U/Pb	Zircon	60.2	0.3	Fine-grained granite, 4 concordant, 3 overlapping fractions, 4 run in all.	Haeussler and others (in prep, 2008)
MLS 6	TKg 1656	Anchorage	61.81	149.3483	Pegmatite	K/Ar	Muscovite Feldspar	66.8 64.7	2.0 1.9	Concordant, mineralized pegmatite dike, alkali feldspar	Madden-McGuire and others, 1990; Winkler, 1992
W41A	TKg 1656	Anchorage	61.8183	149.2917	Pegmatite	K/Ar	Muscovite	66.0		Holland Prospect, copper sulphide bearing pegmatite	Silberman and others, 1978, writ. comm.
90SAL 44A	TKg 1656	Tyonek	61.8809	152.2577	Granite	40/39 Average	Biotite Hornblende	66.3 63.6	1.5 0.4	Reverse discordant	Layer and Solie, 2008
02ADW 305B	TKg 1656	Tyonek	61.8872	152.3143	Granite	40/39 Plateau	Hornblende	65.1 67.0	1.6 1.1	Hornblende granite, replicate analysis, 6 fractions, 69% ^{39}Ar released	Haeussler and others (in prep, 2008)
69AR 310	TKg 1658	Tyonek	61.9017	152.8967	Quartz monzonite	K/Ar	Biotite	66.8	1.9	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Reed and Nelson, 1977, 1980
90DNS 36	TKg 1658	Tyonek	61.896	152.1395	Granodiorite	40/39 Plateau	Hornblende	68.0	0.7	Dacite sill, good plateau	Layer and Solie, 2008
75ACy 135	TKg 1658	Anchorage	61.9883	149.4167	Granodiorite	K/Ar	Biotite Muscovite	65.0 67.2	2.0 2.0	Concordant	Csejtey and others, 1978, Silberman and others, 1978a,b, Winkler, 1992
69AR 305	TKg 1658	Talkeetna	62.0633	152.9167	Granodiorite	K/Ar	Biotite	67.5	1.9	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Reed and Nelson, 1977, 1980
01WE01	TKg 1658	Talkeetna Mountains	62.1363	149.2603	Granodiorite	40/39 Plateau	Biotite Hornblende	66.0 67.4	0.5 0.7	Approximate location, near Gunsite prospect. Slightly discordant ages. Hornblende isochron 67.5±0.7, biotite isochron 66.6±0.6	J.M. Schmidt, written commun., 2008

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
01WE02	TKg 1658	Talkeetna Mountains	62.1363	149.2603	Granodiorite	40/39 Plateau	White mica	64.7	0.5	Approximate location, near Gunsite prospect. Altered medium-grained biotite granodiorite. Mafic minerals altered to chlorite, abundant sericite alteration of plagioclase. Hydrothermal age?	J.M. Schmidt, written commun., 2008
70AR 132	TKg 1658	Talkeetna	62.2367	152.7858	Quartz monzonite	K/Ar	Biotite	66.2	1.9	Kohlsaat pluton. Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Reed and Nelson, 1977; 1980
99MBW 403	TKg 1658	Talkeetna Mountains	62.3948	149.2916	Granodiorite	40/39 Plateau	Hornblende	57.7	0.5	Biotite-hornblende granodiorite	Drake and Layer, 2001
99MBW 458	TKgr 1656	Talkeetna Mountains	62.4244	149.0722	Granite	40/39 Plateau	Potassium Feldspar	68.5	0.6	Biotite granite. Flat plateau, no evidence of argon loss. However, as a K-feldspar, it must be considered suspect.	Drake and Layer, 2001
70AR 2-14	TKg 1658	Talkeetna	62.5478	152.1883	Granodiorite	K/Ar	Biotite	66.2	1.8	Cascade pluton. Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Reed and Nelson, 1977, 1980
77BT 224	TKgd 1665	Lake Clark	60.6317	154.5783	Diorite	K/Ar	Hornblende	69.4	2.1	Hornblende diorite	Eakins and others, 1978, Nelson and others, 1983
70AR 146	TKgd 1660	Kenai	60.7433	152.9583	Granodiorite	K/Ar	Biotite	68.2	1.9	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976
70AR 147	TKgd 1660	Kenai	60.865	152.68	Granodiorite	K/Ar	Biotite Hornblende	65.4 67.6	1.8 2.0	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
70AR 140	TKgd 1660	Kenai	60.9433	152.8617	Granodiorite	K/Ar	Biotite Hornblende	65.1 70.5	1.9 2.0	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976; Detterman and others, 1976
70AR 188	TKgd 1665	Tyonek	61.0083	152.3967	Quartz diorite	K/Ar	Biotite Hornblende	64.2 66.4	1.8 1.9	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Detterman and others, 1976; Magoon and others, 1976
68AR 258	TKgd 1665	Tyonek	61.1017	152.4817	Quartz diorite	K/Ar	Biotite Hornblende	62.3 63.5	1.8 1.9	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972, Detterman and others, 1976; Magoon and others, 1976
70AR 134	TKgd 1665	Tyonek	61.1617	152.095	Granodiorite	K/Ar	Biotite Hornblende	64.4 70.4	1.8 2.1	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Detterman and others, 1976; Magoon and others, 1976
MLS 9	TKgd 1660	Anchorage	61.7783	149.3033	Tonalite	K/Ar	Plagioclase Chlorite	54.7 56.6	1.6 1.7	Propylitized tonalite, concordant	Madden-McGuire and others, 1990, Winkler, 1992
73ACy 95	TKgd 1660	Talkeetna Mountains	62.1075	148.9955	Granodiorite	K/Ar	Biotite Hornblende	61.7 71.3	1.9 2.1	Discordant	Csejtey and others, 1978
73ACy 94	TKgd 1665	Talkeetna Mountains	62.0772	149.1872	Tonalite	K/Ar	Biotite Hornblende	61.7 61.0	1.9 1.8		Csejtey and others, 1978
72ACy 127	TKgd 1665	Talkeetna Mountains	62.1462	149.3083	Tonalite	K/Ar	Biotite Hornblende	66.4 64.3	2 2	Age recalculated using constants of Steiger and Jager (1977), biotite-hornblende tonalite, reverse concordant	Csejtey, 1974, Csejtey and others, 1978

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
72ACy 117	TKgd 1665	Talkeetna Mountains	62.15	149.225	Quartz diorite	K/Ar	Biotite Hornblende	67.3 64.6	2 2	Age recalculated using constants of Steiger and Jager (1977), reverse concordant	Csejtey, 1974, Csejtey and others, 1978
02PH 388A	TKgb 2440	Tyonek	61.5700	150.7670	Hornblendite	40/39 Plateau	Hornblende	83.5 84.2	5.2 1.3	Replicate analysis, 3 fractions, 84% ^{39}Ar release Replicate analysis, 3 fractions, 75% ^{39}Ar release	Haeussler and others (in prep, 2008)
02ADW 317A	TKgb 2440	Tyonek	61.7732	152.2407	Gabbro	40/39 Plateau	Hornblende	69.0 72.3	1.1 2.6	Replicate analysis, 5 fractions, 58% ^{39}Ar released; poor plateau	Haeussler and others (in prep, 2008)
K-2-88	Kkd 1917	Afognak	58.1717	152.895	Metagraywacke	Fission-track	Zircon	72		Kodiak Formation graywacke, elevation 0m	Clendenen, 1991
78ASi-M7	Km 2010	Anchorage	61.75	148.55	Hornfels	K/Ar	Whole-rock	40.0	1.2	Hornfelsed shale, approximate location	Silberman and Grantz, 1984, Winkler, 1992
M-19-88	KMm 2190	Afognak	58.21	153.21	Intrusive rock	Fission-track	Apatite	53		Dike cuts Uyak Complex, elevation 0m	Clendenen, 1991
M-19-88	KMm 2190	Afognak	58.21	153.0017	Intrusive rock	40/39 Isochron	Hornblende	59.3	2.2	Dike cuts Uyak Complex, 58.3 Ma total fusion age	Clendenen, 1991
M-19-88	KMm 2190	Afognak	58.21	153.0017	dike	40/39 Isochron	Hornblende	59.3	2.2	Dike cuts Uyak Complex at Malina Bay on Afognak Island.	Bradley and others, 2000
Clark73	KMm 2190	Anchorage	61.0027	149.66	Granitic clast	K/Ar	Hornblende	146.	7.0	Granitic clast in metaconglomeratic sandstone within the McHugh Complex	Clark, 1973; Magoon and others, 1976; Clark, 1972, Clark and others, 1976; Karl and others, 1979

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
70AR 169	Kgd 2420	Lake Clark	60.5983	153.405	Granodiorite	K/Ar	Biotite Hornblende	63.1 69.0	1.8 2.0	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1973; Magoon and others, 1976
60AGz 45	Kgd 2480	Tyonek	61.4633	150.7433	Granodiorite	K/Ar	Hornblende	73.5		Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969
01PH 417A	Kgd; 2480	Tyonek	61.5013	150.7534	Quartz diorite	40/39 Plateau	Hornblende	73.8	1.1	Hornblende quartz diorite, 8 fractions, 96% ^{39}Ar released	Haeussler and others (in prep, 2008)
02PH 322A	Kgd 2480	Tyonek	61.5790	150.5509	Granodiorite	40/39 Plateau	Biotite	74.9	0.4	Biotite granodiorite, 4 fractions, 20% 39 Ar released; Ar loss	Haeussler and others (in prep, 2008)
02PH 345A	Kgd 2480	Tyonek	61.7472	152.2916	Granodiorite	40/39 Plateau	Hornblende	78.4	1.1	Hornblende granodiorite, 5 fractions, 94% 39Ar release	Haeussler and others (in prep, 2008)
W077A	Kgd 2480	Anchorage	61.77	149.3183	Granite	K/Ar	Biotite Hornblende	58.1 70.1		Chloritized biotite, Hatcher Pass	Silberman, M. L., 1978, writ. comm.
MLS 10	Kgd 2480	Anchorage	61.7833	149.313	Tonalite	K/Ar	Muscovite	56.6	1.7	Altered tonalite, quartz-sericite selvage on gold-bearing vein at Bullion mine	Silberman and others, 1978b, Madden-McGuire and others, 1990, Winkler, 1992
WKW	Kgd 2480	Anchorage	61.785	149.3083	Granite	K/Ar	Biotite	78.4		Kelley Willow Prospect	Silberman and others, 1978a,b
66AGz W4	Kgd 2480	Anchorage	61.7867	149.2183	Tonalite	K/Ar	Biotite Hornblende	72.0 74.4	2.2 2.2	Concordant	Csejtey and others, 1977, 1978, Silberman and others, 1978a,b, Winkler, 1992
MLS 4	Kgd 2480	Anchorage	61.7917	149.325	Tonalite	K/Ar	Biotite Hornblende	78.8 72.2	2.4 2.2	Reverse discordant	Silberman and others, 1978b, Winkler, 1992
66AGz W2	Kgd 2480	Anchorage	61.8133	149.2133	Tonalite	K/Ar	Biotite Hornblende	69.0 73.3	2.1 2.2	Subconcordant	Csejtey and others, 1977, 1978, Silberman and others, 1978a,b; Winkler, 1992

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
60AGz 40	Kgd 2480	Anchorage	61.8267	149.2417	Tonalite	K/ar	Hornblende	73.1	2.2		Csejtey and others, 1978; Winkler, 1992
84AWk29	Kgd 2480	Anchorage	61.88	149.0267	Tonalite	K/Ar	Biotite Hornblende	68.0 73.0	1.4 1.7	Discordant	Winkler, 1992
73ACy 97	Kgd 2480	Anchorage	61.942	148.9938	Quartz diorite	K/Ar	Biotite Hornblende	67.4 71.8	2.0 2.2	Discordant	Csejtey and others, 1978, Winkler, 1992
66ALe 30	Kgd 2430	Tyonek	61.0333	152.1433	Quartz diorite	K/Ar	Biotite Hornblende	72.6 73.9		Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and others, 1976
70AR 168	Kqd 2430	Lake Clark	60.6417	153.1583	Quartz diorite	K/Ar	Biotite Hornblende	65.6 68.7	1.8 2	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1973; Magoon and others, 1976
70AR 173	Kqd 2430	Kenai	60.7483	152.8117	Diorite	K/Ar	Biotite Hornblende	67.2 71.5	1.9 2.1	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976
70AR 158	Kqd 2430	Kenai	60.8317	152.5817	Quartz diorite	K/Ar	Biotite Hornblende	70.0 74.4	2.0 2.2	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976; Detterman and others, 1976
70AR 179	Kqd 2430	Kenai	60.985	152.28	Quartz diorite	K/Ar	Biotite Hornblende	71.3 70.6	2.0 2.1	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976; Detterman and others, 1976
70AR-3-1	Kqd 2430	Talkeetna	62.0767	152.45	Diorite	K/Ar	Biotite	69.2	2.0	Kichatna pluton, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Reed and Nelson, 1977, 1980
99ARj 28	Kqd 2430	Talkeetna Mountains	62.2988	149.1572	Diorite	40/39 Plateau	Hornblende	75.5	0.6	Biotite-hornblende diorite. Isochron age 73.2 ± 1.3	Drake and Layer, 2001

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
65AR 1034	Kqms 2470	Iliamna	59.805	154.2467	Quartz monzonite	K/Ar	Hornblende	75.6		Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and Reed, 1980
65AR 910	Kqms 2470	Iliamna	59.8267	154.2067	Quartz diorite	K/Ar	Biotite Hornblende	82.7 85.5		Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and Reed, 1980
65AR 818	Kqms 2470	Iliamna	59.8467	153.8583	Quartz diorite	K/Ar	Biotite	79.8		Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and Reed, 1980
02PH 321A	Kqms 2470	Tyonek	61.9595	152.3774	Syenite-monzonite	U/Pb	Zircon	80.3	0.1	2 concordant, overlapping fractions; 4 run in all	Haeussler and others (in prep, 2008)
69AR 388	Kqms 2491	Tyonek	61.3417	152.7417	Quartz diorite	K/Ar	Hornblende	97.9	3.7	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972, 1973
02PH 375A	Kogr 2490	Talkeetna	62.0007	151.4733	Granite	40/39 Plateau	Biotite	96.9	1.4	Coarse biotite granite, 3 fractions, 83% ^{39}Ar release	Haeussler and others (in prep, 2008)
70AR 208	Kqms 2491	Tyonek	61.4067	152.4117	Syenite	K/Ar	Hornblende	109.4	3.2	Age recalculated using constants of Steiger and Jager (1977). Age likely reset by surrounding plutons.	Reed and Lanphere, 1972; 1973; Magoon and others, 1976
74ASj 100a	Kum 2510	Anchorage	61.7342	149.3937	Serpentinite	K/Ar	Actinolite	91.0	4.6	K2O by isotope dilution	Csejtey and others, 1978, Silberman and others, 1978a,b, Winkler, 1992

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
73ACy 17	Kum 2510	Anchorage	61.7508	149.4188	Serpentinite	K/Ar	Actinolite	88.9	4.4	K2O by isotope dilution	Csejtey and others, 1978, Silberman and others, 1978a,b, Winkler, 1992
Pavlis H	Klt 2570	Anchorage	61.575	148.7283	Trondhjemite	K/Ar	Biotite Hornblende	116 126	5 6	Concordant	Pavlis, 1982, 1986, Winkler, 1992
85paw 7a	Klt 2570	Anchorage	61.5833	148.7000	Trondhjemite?	40/39 Total Fusion	Hornblende	134.8	1.6	Approximate location. Thought to contain excess argon, low temperature heating steps contaminated; age thought too old.	Barnett and others, 1994
85paw 7a	Klt 2570	Anchorage	61.5833	148.7000	Trondhjemite?	40/39 Total Fusion	Biotite	119.0	0.5	Approximate location. No plateau, hence total fusion age.	Barnett and others, 1994
85paw 7a	Klt 2570	Anchorage	61.5833	148.7000	Trondhjemite?	Rb/Sr	Isochron	130.0	1.0	Approximate location. Whole-rock-plagioclase-biotite isochron.	Barnett and others, 1994
85paw 27	Klt 2570	Anchorage	61.5833	148.7417	Tonalite?	40/39 Total Fusion	Hornblende	115.9	1.5	Approximate location. Strongly discordant heating spectra.	Barnett and others, 1994
85paw 71	Klt 2570	Anchorage	61.5833	148.7583	Trondhjemite?	Rb/Sr	Isochron	132.6	2.6	Approximate location. Whole-rock-plagioclase-biotite isochron.	Barnett and others, 1994
85paw 38	Klt 2570	Anchorage	61.5883	148.8000	Trondhjemite	Nd/Sm	Isochron	121.5	9.5	Approximate location	Barnett and others, 1994
85paw 75	Klt 2570	Anchorage	61.5900	148.8000	Trondhjemite?	40/39 Plateau	Hornblende	126	2.3	Approximate location	Barnett and others, 1994
85paw 102	Klt 2570	Anchorage	61.6000	148.4333	Tonalite?	40/39 Plateau	Hornblende	125.4	0.7	Approximate location.	Barnett and others, 1994
85paw 93	Klt 2570	Anchorage	61.6000	148.7833	Trondhjemite?	40/39 Total Fusion	Hornblende	105.4	0.9	Approximate location. Strongly disturbed argon spectra.	Barnett and others, 1994

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
AK341	Klt 2570	Anchorage	61.6167	149.6667	Trondhjemite	U/Pb	Zircon	103			T.L. Hudson and J.G. Arth (USGS, unpub. data, 1989), Winkler, 1992
C80-14 (Pavlis A)	Klt 2570	Anchorage	61.6283	148.5183	Trondhjemite	K/Ar	Hornblende	124	8		Pavlis, 1982; 1983, Winkler, 1992
85puc 100	Klt 2570	Anchorage	61.6583	148.4500	Tonalite	40/39 Total Fusion	Biotite	122.1	0.4	Approximate location. Totalfusion age, no plateau.	Barnett and others, 1994
86pac 12	Klt 2570	Anchorage	61.6667	148.4500	Tonalite	40/39 Total Fusion	Biotite	120.3	0.4	Approximate location. Total fusion age, no plateau.	Barnett and others, 1994
85pac 31a	Klt 2570	Anchorage	61.6833	148.4333	Tonalite?	40/39 Plateau	Hornblende	125.4	1.1	Approximate location.	Barnett and others, 1994
81AWk 44B	Klt 2570	Anchorage	61.7017	148.3633	Trondhjemite	K/Ar	Muscovite	110	3		Winkler, 1992
85paw 40	Klt 2570	Anchorage	61.6167	148.6667	Trondhjemite?	Rb/Sr	Isochron	133.0	0.2	Approximate location. Whole-rock-plagioclase-biotite isochron.	Barnett and others, 1994
81KMS 25	Kvgs 2710	Seward	60.3974	149.2185	Biotite semischist	K/Ar	Not reported	51.5	1.5	Metamorphic age or cooling age of Valdez Group schist unit (Kvgs) along Placer River Fault	Nelsonandothers (1985)
73ACy 85	Kps 2750	Anchorage	61.7167	149.5417	Schist	K/Ar	Muscovite	59.0	1.8	Muscovite schist, reset	Csejtey and others, 1978; Silberman and others, 1978a,b; Winkler, 1992
73ACy 27	Kps 2750	Anchorage	61.7305	149.4347	Schist	K/Ar	Muscovite	65.9	3.0	Muscovite schist, reset	Csejtey and others, 1978; Silberman and others, 1978a,b; Winkler, 1992

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
73ACy 11a	Kps 2750	Anchorage	61.7422	149.4245	Schist	K/Ar	Muscovite	59.6	1.8	Muscovite schist, reset	Csejtey and others, 1978; Silberman and others, 1978a,b; Winkler, 1992
W077	Kps 2750	Anchorage	61.77	149.3183	Schist	K/Ar	Muscovite Chlorite	57.1 56.0		Muscovite-chlorite, Hatcher Pass	Silberman, M. L., 1978, writ. comm.
MLS 11	Kps 2750	Anchorage	61.775	149.305	Schist	K/Ar	Biotite Chlorite	54.5 50.6	1.6 2.5	Concordant, reset	Madden-McGuire and others, 1990; Winkler, 1992
90JK 191A	Ks 2850	Tyonek	61.9083	152.2871	Conglomerate	40/39 Average	Hornblende	97.7	2.0	Igneous clast from conglomerate	Layer and Solie, 2008
90JK 191B	Ks 2850	Tyonek	61.9083	152.2871	Conglomerate	40/39 Average	Hornblende	101.0	2.0	Igneous clast from conglomerate. Fair plateau showing some argon loss	Layer and Solie, 2008
90JK 191C	Ks 2850	Tyonek	61.9083	152.2871	Conglomerate	40/39 Plateau	Hornblende	94.8	1.4	Igneous clast from conglomerate.	Layer and Solie, 2008
70AR 184	KJg 2900	Lake Clark	60.7367	153.1033	Quartz diorite	K/Ar	Biotite Hornblende	72.4 95.8	2.0 2.8	Strongly discordant. Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1973; Magoon and others, 1976
68AR 261	KJg 2900	Lake Clark	60.8867	153.0317	Granodiorite	K/Ar	Biotite Hornblende	58.8 97.5	1.7 3.8	Strongly discordant. Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1973; Magoon and others, 1976; Nelson and others, 1983
68AR 260	KJg 2900	Tyonek	61.0833	152.8317	Quartz diorite	K/Ar	Biotite Hornblende	60.0 80.7	1.7 2.3	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972, 1973

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
62ALe 6e	Jnc 3016	Kenai	60.1133	152.585	Quartz diorite	K/Ar	Biotite Hornblende	156.6 159.7		Rounded granitic boulders within the Chisik Conglomerate member of the Naknek Formation. Age recalulated using constants of Steiger and Jager (1977)	Detterman and others, 1965, Magoon and others, 1976; Wilson and others, 2006
2710M01	Jp? 3265	Anchorage	61.6243	148.6905	Metavolcanic-clastic rock	U/Pb	Zircon	202.1	1.2	Single grain analysis, 3 grains, first population	Rioux and others, 2007
2710M01	Jp? 3265	Anchorage	61.6243	148.6905	Metavolcanic-clastic rock	U/Pb	Zircon	205.8	0.4	Single grain analysis, 3 grains, second population	Rioux and others, 2007
65AR 905	Jtr 3380	Iliamna	59.92	153.6083	Trondhjemite	K/Ar	Muscovite	148.0		Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and Reed, 1980; Nelson and others, 1983
82ARM 21	Jtr 3380	Anchorage	61.8083	148.9083	Trondhjemite	K/Ar	Biotite Muscovite	136.2 142.5	2.2 4.1	Concordant	Winkler, 1992
74ACy 151	Jtr 3380	Anchorage	61.8272	148.8972	Trondhjemite	K/Ar	Muscovite	134.0	4.0		Csejtey and others, 1978; Winkler, 1992
74ACy 146	Jtr 3380	Anchorage	61.9463	148.6845	Trondhjemite	K/Ar	Muscovite	129	3.9		Csejtey and others, 1978; Winkler, 1992
1721M04	Jtr 3380	Talkeetna Mountains	62.0177	148.5618	Trondhjemite	U/Pb	Zircon	~157		Age given as range 157.1 to 159.9 Ma, no error reported. Interpreted as a mixing age of two similarly aged zircon populations.	Rioux and others, 2007
1721M04	Jtr 3380	Talkeetna Mountains	62.0177	148.5618	Trondhjemite	U/Pb	Zircon	155.6	2.6	Weighted mean age	Rioux and others, 2007
73ACy 115	Jtr 3380	Talkeetna Mountains	62.0803	148.508	Trondhjemite	K/Ar	Biotite Muscovite	99.4 135.0	3.0 4.0	Reset, discordant	Csejtey and others, 1978

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
73ACy 114	Jtr 3380	Talkeetna Mountains	62.0808	148.7662	Trondhjemite	K/Ar	Biotite	67.8	2.0	Reset	Csejtey and others, 1978
62AE 4	Jtr 3380	Talkeetna Mountains	62.3175	148.1692	Trondhjemite	K/Ar	Biotite Muscovite	143.0 146.0	4.3 4.4	Concordant	Csejtey and others, 1978, USGS, 1979e
1723M12	Jtr 3380	Talkeetna Mountains	62.3807	148.1555	Trondhjemite	U/Pb	Zircon	156.9	2.5	Weighted mean age	Rioux and others, 2007
TropS54	Jtr 3380	Talkeetna Mountains	62.4103	147.9462	Trondhjemite	U/Pb	Zircon	152.7	1.3	Weighted mean age	Rioux and others, 2007
73ASt 275	Jtr 3380	Talkeetna Mountains	62.512	147.8763	Trondhjemite	K/Ar	Biotite	148.5	4.3	Age recalculated using constants of Steiger and Jager (1977)	Csejtey and others, 1978, Turner and Smith, 1974
73ASt 256	Jtr 3380	Talkeetna Mountains	62.5812	147.6978	Trondhjemite	K/Ar	Biotite	146.5	4.3	Age recalculated using constants of Steiger and Jager (1977)	Csejtey and others, 1978
6-14-6	Jqm 3402	Iliamna	59.9217	153.285	Quartz monzonite	K/Ar	Whole-rock	170 174	4 4		Detterman and Reed, 1980
1723M07	Jqm 3402	Talkeetna Mountains	61.8277	148.794	Granodiorite	U/Pb	Zircon	169.4	1.5	Weighted mean age	Rioux and others, 2007
1723M07	Jqm 3402	Anchorage	61.8277	148.794	Granodiorite	U/Pb	Zircon	~169		Age given as 172.2 to 174.4, no error reported, ~best~ age assigned. Interpreted due to minor inheritance of older zircon.	Rioux and others, 2007
1723M08	Jqm 3402	Anchorage	61.8702	148.7488	Quartz diorite	U/Pb	Zircon	~169		Age range given as 169.8 to 171.2. Interpreted as due to minor inheritance of older zircon.	Rioux and others, 2007
1723M08	Jqm 3402	Anchorage	61.8702	148.7488	Quartz diorite	U/Pb	Zircon	168.3	1.8	Weighted mean age.	Rioux and others, 2007
1723M04	Jqm 3402	Anchorage	61.872	148.5598	Granodiorite	U/Pb	Zircon	176.9	0.4		Rioux and others, 2007

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
82AWk 65A	Jqm 3402	Anchorage	61.9067	148.5083	Granodiorite	K/Ar	Biotite Hornblende	169.0 173.2	3.5 2.3	Concordant	Winkler, 1992
1721M03	Jqm 3402	Anchorage	61.9655	148.3242	Granodiorite	U/Pb	Zircon	177.5	0.8		Rioux and others, 2007
74ACy 149	Jqm 3402	Anchorage	61.9925	148.4375	Granodiorite	K/Ar	Biotite	168.0	5.0		Csejtey and others, 1978, Winkler, 1992
1721M01	Jqm 3402	Talkeetna Mountains	62.0193	148.3187	Granodiorite	U/Pb	Zircon	175.5	0.3		Rioux and others, 2007
01JS04A	Jqm 3402	Talkeetna Mountains	62.132	148.831	Granodiorite	40/39	Biotite			Biotite granodiorite. Disturbed age, reported as 115 to 130 Ma, probably geologically meaningless.	J.M. Schmidt, written commun., 2008
59AGz M25-1	Jqm 3402	Talkeetna Mountains	62.165	147.745	Granodiorite	A	Zircon	180		Quartz diorite-granodiorite	Grantz and others, 1963
59AGz M25-1	Jqm 3402	Talkeetna Mountains	62.165	147.745	Granodiorite	K/Ar	Biotite	160		Quartz diorite-granodiorite	Grantz and others, 1963
59AGz M25-2	Jqm 3402	Talkeetna Mountains	62.165	147.745	Quartz monzonite	K/Ar	Biotite	155.0		Granodiorite-quartz monzonite	Grantz and others, 1963
1723M09	Jqm 3402	Talkeetna Mountains	62.2498	148.152	Granodiorite	U/Pb	Zircon	173.7	0.3		Rioux and others, 2007
59AGz M57	Jqm 3402	Talkeetna Mountains	62.3547	147.82	Granodiorite	A	Zircon	125	15		Csejtey and others, 1978, Grantz and others, 1963
59AGz M58	Jqm 3402	Talkeetna Mountains	62.3562	147.8217	Granodiorite	A	Zircon	165	20		Grantz and others, 1963, Csejtey and others, 1978
59AGz M58	Jqm 3402	Talkeetna Mountains	62.3562	147.8217	Granodiorite	K/Ar	Biotite Hornblende	174.0 167.0	6.0	Age recalculated using constants of Steiger and Jager (1977); no error reported for biotite	Csejtey and others, 1978, Detterman and others, 1965, Grantz and others, 1963
83AR 46	Jqd 3404	Mount Katmai	58.455	155.8933	Quartz diorite	K/Ar	Biotite Hornblende	166.0 167.0	5.0 5.0	Alaska-Aleutian Range batholith	Shew and Lanphere, 1992

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
83AR 34	Jqd 3404	Mount Katmai	58.7083	155.1217	Quartz diorite	K/Ar	Biotite Hornblende	164.0 153.0	4.9 4.6	Discordant. Alaska-Aleutian Range batholith	Shew and Lanphere, 1992
A126	Jqd 3404	Mount Katmai	58.86	154.8917	Quartz diorite	K/Ar	Hornblende	173.0	5.2	Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Shew and Lanphere, 1992
69AR 1	Jqd 3404	Mount Katmai	58.975	154.5483	Quartz diorite	K/Ar	Hornblende	174.7	8.8	Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976; Shew and Lanphere, 1992
64AR 612	Jqd 3403	Iliamna	59.3	154.305	Quartz diorite	K/Ar	Biotite Hornblende	167 158		Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and Reed, 1980
64ADt 863	Jqd 3403	Iliamna	59.3417	154.45	Quartz diorite	K/Ar	Biotite Hornblende	161 159		Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and Reed, 1980
64ADt 420A	Jqd 3403	Iliamna	59.375	154.4667	Quartz diorite	K/Ar	Biotite	158		Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and Reed, 1980
66ALe 45	Jqd 3403	Iliamna	59.3767	154.3217	Quartz diorite	K/Ar	Biotite Muscovite	158.0 160.0	4.6 4.7	Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976
64ADt 715	Jqd 3403	Iliamna	59.3967	154.3083	Quartz diorite	K/Ar	Biotite Muscovite	156 164		Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and Reed, 1980

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
66ALe 22	Jqd 3403	Iliamna	59.4017	154.6333	Quartz diorite	K/Ar	Biotite Hornblende	135.0 151.0	5.0 4.5	Discordant. Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972, Magoon and others, 1976
66ALe 13	Jqd 3403	Iliamna	59.4217	154.4433	Quartz diorite	K/Ar	Biotite Hornblende	156.0 157.0	4.6 4.6	Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; 1973; Magoon and others, 1976
6-26-1	Jqd 3403	Iliamna	59.6083	153.5617	Quartz diorite	K/Ar	Feldspar	155			Detterman and Reed, 1980
62ALe 1	Jqd 3403	Iliamna	59.7017	153.7	Quartz diorite	K/Ar	Biotite Hornblende	163.0 172.0		Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Detterman and Reed, 1980
62ALe 2	Jqd 3403	Iliamna	59.7683	153.915	Granodiorite	K/Ar	Biotite Hornblende	87.1 92.3		Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and Reed, 1980
65AR 906	Jqd 3403	Iliamna	59.8833	153.745	Quartz diorite	K/Ar	Biotite Hornblende	78.0 90.1		Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and Reed, 1980
65AR 827	Jqd 3403	Iliamna	59.7717	153.645	Diorite	K/Ar	Biotite Hornblende	161 160		Alaska-Aleutian Range batholith, 1976 constants, Detterman and Reed, 1980	Detterman and others, 1965, Reed and Lanphere, 1969; 1972; Magoon and others, 1976
62ALe 5	Jqd 3404	Kenai	60.2533	152.886	Granodiorite	K/Ar	Biotite Hornblende	174.0 171.9		Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager (1977)	Detterman and others, 1965; 1976; Reed and Lanphere, 1969; 1972; Magoon and others, 1976

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
70AR 175	Jqd 3404	Kenai	60.59	152.78	Granodiorite	K/Ar	Biotite	97.8	2.8	Age recalculated using constants of Steiger and Jager (1977). Age suspect, may be reset by younger plutonism.	Reed and Lanphere, 1972; 1973; Magoon and others, 1976; Detterman and others, 1976
70AR 177	Jqd 3404	Kenai	60.615	152.6283	Quartz diorite	K/Ar	Biotite Hornblende	163.0 161.0	4.7 4.7	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976; Detterman and others, 1976
70AR 178	Jqd 3404	Kenai	60.6767	152.4517	Granodiorite	K/Ar	Biotite Hornblende	165.0 162.0	4.8 4.8	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976; Detterman and others, 1976
66AR 1464	Jqd 3404	Kenai	60.8033	152.355	Quartz monzonite	K/Ar	Biotite	159		Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; 1973; Magoon and others, 1976; Detterman and others, 1976
70AR 156	Jqd 3404	Kenai	60.805	152.4917	Diorite	K/Ar	Hornblende	146.0	4.3	Age recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1972; 1973; Magoon and others, 1976; Detterman and others, 1976
66AR 1	Jqd 3404	Tyonek	61.0967	151.48	Quartz diorite	K/Ar	Biotite Hornblende	167 166		Stedatna Creek well, depth 7452ft-7459ft, recalculated using constants of Steiger and Jager (1977)	Reed and Lanphere, 1969; 1972; Magoon and others, 1976
L & N 5	Jqd 3404	Anchorage	61.7167	147.8383	Tonalite	Fission-track	Zircon	186	29		Little and Naesern 1989, Winkler, 1992
81AWk 14	Jqd 3404	Anchorage	61.7183	147.8417	Tonalite	K/Ar	Biotite Hornblende	172 181	5 8		Winkler, 1992
L & N 4	Jqd 3404	Anchorage	61.7367	147.9067	Tonalite	Fission-track	Zircon	170	23		Little and Naeser, 1989, Winkler, 1992

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
82AWk62	Jqd 3404	Anchorage	61.9233	148.4933	Tonalite	K/Ar	Biotite Hornblende	169.1 154.2	2.9 4.5	Reverse discordant	Winkler, 1992
1723M01	Jqd 3403	Anchorage	61.941	148.627	Quartz diorite	U/Pb	Zircon	168.9	0.3		Rioux and others, 2007
1721M05	Jqd 3403	Anchorage	61.9672	148.5283	Quartz diorite	U/Pb	Zircon	~169		Age given as 169.1 to 172.0, no reported error, interpreted to have minor inherited zircon	Rioux and others, 2007
1721M05	Jqd 3403	Anchorage	61.9672	148.5283	Quartz diorite	U/Pb	Zircon	168.9	3.3	Weighted mean age.	Rioux and others, 2007
82SK 305	Jqd 3404	Anchorage	61.97	148.5033	Quartz diorite	K/Ar	Hornblende	168.7	1.0		Winkler, 1992
59AGz M25-3	Jqd 3403	Talkeetna Mountains	62.165	147.745	Quartz diorite	A	Zircon	150			Grantz and others, 1963
59AGz M25-3	Jqd 3403	Talkeetna Mountains	62.165	147.745	Quartz diorite	K/Ar	Biotite	160			Grantz and others, 1963
59AGz M26	Jqd 3403	Talkeetna Mountains	62.2138	148.1097	Quartz diorite	K/Ar	Biotite	161		Age recalculated using constants of Steiger and Jager (1977), no error reported	Csejtey and others, 1978, Grantz and others, 1963
59AGz M26	Jqd 3403	Talkeetna Mountains	62.2138	148.1097	Quartz diorite	K/Ar	Biotite	173		Age recalculated using constants of Steiger and Jager (1977), no error reported	Csejtey and others, 1978; Evernden and others, 1961
59AGz M26	Jqd 3403	Talkeetna Mountains	62.2138	148.1097	Quartz diorite	K/Ar	Biotite Hornblende	170.0 163.0	6 6	Age recalculated using constants of Steiger and Jager (1977)	Csejtey and others, 1978, Detterman and others, 1965
2724M01	Jqd 3403	Talkeetna Mountains	62.2317	148.8497	Tonalite	U/Pb	Zircon	~192		Age given as Range, 191.5 to 192.9, no error reported. Probably includes inherited Carboniferous to Triassic zircon.	Rioux and others, 2007
2724M01	Jqd 3403	Talkeetna Mountains	62.2317	148.8497	Tonalite	U/Pb	Zircon	187.4	2.2	Weighted mean age	Rioux and others, 2007

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
2712M06	Jqd 3403	Talkeetna Mountains	62.2523	148.7028	Tonalite	U/Pb	Zircon	~191		Age given as Range, 190.0 to 192.0 no error reported. Analysis indicates inclusion of Paleozoic xenocrystic zircon.	Rioux and others, 2007
2712M06	Jqd 3403	Talkeetna Mountains	62.2523	148.7028	Tonalite	U/Pb	Zircon	188.3	2.2	Weighted mean age.	Rioux and others, 2007
2712B2A	Jqd 3403	Talkeetna Mountains	62.3727	148.2543	Tonalite	U/Pb	Zircon	190.5	6.8	Weighted mean age	Rioux and others, 2007
73ACy 109	Jqd 3403	Talkeetna Mountains	62.4578	148.3095	Quartz diorite	K/Ar	Biotite Hornblende	144.0 154.0	4.3 4.6	Discordant	Csejtey and others, 1978
KA431	Jqd 3405	Talkeetna Mountains	62.6417	147.3833	Diorite	K/Ar	Biotite	169		Oshetna River	Evernden and others, 1961
64AE 98	Jmu 3407	Iliamna	59.2683	154.49	Gabbro	K/Ar	Hornblende	183		Alaska-Aleutian Range batholith, hornblende gabbro Age recalculated using constants of Steiger and Jager (1977).	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and Reed, 1980
65ADt 1084	Jmu 3407	Iliamna	59.73	153.8483	Hornblendite	K/Ar	Hornblende	160		Alaska-Aleutian Range batholith. Age recalculated using constants of Steiger and Jager (1977). Minimum age?	Reed and Lanphere, 1969; 1972; Magoon and others, 1976; Detterman and Reed, 1980
ANCH-1	Jeqd 3525	Anchorage	61.4633	149.36	Quartz diorite	K/Ar	Biotite	161	5		Magoon and others, 1976; Clark, 1972; 1933
SClark 1	Jeqd 3525	Anchorage	61.465	149.3617	Quartz diorite	K/Ar	Biotite	165	5		Clark, 1972, Winkler, 1992
AK316	Jeqd 3525	Anchorage	61.5967	148.92	Quartz diorite	K/Ar	Hornblende	167	9		Winkler, 1992
AK319	Jeqd 3525	Anchorage	61.645	148.745	Quartz diorite	U/Pb	Zircon	183		Concordant, no error reported	Winkler, 1992

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
W80-48 (Pavlis F)	Jeqd 3525	Anchorage	61.6467	148.7317	Quartz diorite	K/Ar	Hornblende	194	7		Pavlis, 1982; 1983; Winkler, 1992
W80-25B (Pavlis E)	Jeqd 3525	Anchorage	61.6533	148.685	Quartz diorite	K/Ar	Hornblende	191	7		Pavlis, 1982; 1983; Winkler, 1992
2714M02	Jeqd 3525	Anchorage	61.6562	148.7982	Tonalite	U/Pb	Zircon	186.1	0.3		Rioux and others, 2007
0719P05B	Jeqd 3525	Anchorage	61.6588	148.6835	Trondhjemite	U/Pb	Zircon	193.3	0.4		Rioux and others, 2007
81AWk 34	Jeqd 3525	Anchorage	61.66	148.6883	Granodiorite	K/Ar	Biotite Hornblende	174 175	5 8	Concordant	Winkler, 1992
C80-43B (Pavlis C)	Jeqd 3525	Anchorage	61.67	148.5233	Diorite	K/Ar	Hornblende	135	6		Pavlis, 1982, 1983
2717M04	Jeqd 3525	Anchorage	61.6968	148.5352	Diorite	U/Pb	Zircon	193.9	0.5		Rioux and others, 2007
AK320	Jeqd 3525	Anchorage	61.72	148.4867	Quartz diorite	K/Ar	Hornblende	165	10		Winkler, 1992
0729G02	Jeqd 3525	Anchorage	61.7243	147.576	Quartz diorite	U/Pb	Zircon	186.1	0.8		Rioux and others, 2007
0717B03	Jeqd 3525	Anchorage	61.726	147.0935	Trondhjemite	U/Pb	Zircon	184.1	1.9		Rioux and others, 2007
0716P01	Jeqd 3525	Anchorage	61.7268	147.0928	Trondhjemite	U/Pb	Zircon	185.1	0.5		Rioux and others, 2007
AK338	Jeqd 3525	Anchorage	61.7733	147.2467	Quartz diorite	K/Ar	Hornblende	167	10		Winkler, 1992
W80-17 (Pavlis G)	Jum 3490	Anchorage	61.6367	148.6583	Diorite	K/Ar	Hornblende	189	8		Pavlis, 1982; 1983; Winkler, 1992
AK317	Jum 3490	Anchorage	61.645	148.675	Quartz diorite	U/Pb	Zircon	171		Concordant, no error reported	Winkler, 1992
AK332	Jum 3490	Anchorage	61.6933	148.5383	Diorite	K/Ar	Hornblende	172	11		Winkler, 1992

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
82AWk59	Jum 3490	Anchorage	61.715	148.4933	Tonalite	K/Ar	Hornblende	176.4	3.7		Winkler, 1992
AK336	Jum 3490	Anchorage	61.74	147.22	Gabbro	K/Ar	Hornblende	177	11	Hornblende gabbro	Winkler, 1992
V5C	Jsch 3610	Afognak	58.145	153.1867	Schist	K/Ar	Muscovite	196.4	5.8	Quartz-mica schist. Age recalculated using Steiger and Jager, 1977 constants	Carden and others, 1977, Connelly and Moore, 1979
R83M	Jsch 3610	Afognak	58.2167	153.0333	Schist	Rb/Sr	Isochron	212		Five whole rock samples, 4 Raspberry sch., 1 Seldovia sch., R83Ml08, MlN11, Ml05, SlU3, 7-24-S6	Roeske and others, 1989
ML-08	Jsch 3610	Afognak	58.23	153.0317	Blueschist	Rb/Sr	Isochron	207		Whole rock-phengite date from micaceous quartzite, Raspberry schist	Roeske and others, 1989
ML-05	Jsch 3610	Afognak	58.23	153.0333	Blueschist	Rb/Sr	Isochron	189		Whole rock-phengite date from quartzite, Raspberry schist	Roeske and others, 1989
M-26-88	Jsch 3610	Afognak	58.23	153.0367	Schist	Fission-track	Apatite Zircon	77 148		Raspberry schist, elevation 0m	Clendenen, 1991
ML-N11	Jsch 3610	Afognak	58.2317	153.0367	Blueschist	Rb/Sr	Isochron	193		Whole rock-phengite date from metavolcanic, Raspberry schist	Roeske and others, 1989; Clendenen, 1991
M1D	Jsch 3610	Afognak	58.2417	153.0467	Schist	K/Ar	Amphibole Mica	172.8 191.9	5.1 5.6	White mica-crossite schist, crossite date, recalculated using Steiger and Jager, 1977 constants	Carden and others, 1977, Connelly and Moore, 1979, Connelly, 1978
7AF23-9	Jsch 3610	Seldovia	59.0033	151.7067	Schist	K/Ar	Muscovite	194.7	5.7	Quartz-mica schist, approximate location, recalculated using Steiger and Jager, 1977 constants	Carden and others, 1977
74PG79	Jsch 3610	Seldovia	59.37	151.81	Schist	K/Ar	Muscovite	196.1	5.8	Quartz-mica schist, approximate location, recalculated using Steiger and Jager, 1977 constants	Carden and others, 1977

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
92ATi 316D	Jsch 3610	Seldovia	59.4479	151.7145	Schist	40/39 Plateau	White Mica	190.98	0.3	Seldovia metamorphic complex, Plateau age	Bradley and Karl, 2000, A. Till (per. commun., 2007)
92ATi 309B	Jsch 3610	Seldovia	59.4547	151.7153	Schist	40/39 Plateau	Barroisite Muscovite	191.92 191.7	0.6 0.3	Seldovia metamorphic complex, Plateau age, quartz-white mica-chlorite schist	Bradley and Karl, 2000, A. Till (per. commun., 2007)
SD3-3	Jsch 3610	Seldovia	59.4617	151.7067	Greenschist	K/Ar	Actinolite Chlorite Mica	195.0 185.1 192.3	11.0 8.3 10.0	Approximate location. Age recalculated using constants of Steiger and Jager (1977)	Forbes and Lanphere, 1973; Magoon and others, 1976; Carden and others, 1977
74AF4B.1	Jsch 3610	Seldovia	59.4617	151.7067	Schist	K/Ar	Amphibole	166.8	4.9	Blueschist, crossite date, approximate location, recalculated using Steiger and Jager, 1977 constants	Carden and others, 1977
74AF23-10	Jsch 3610	Seldovia	59.4617	151.7067	Schist	K/Ar	Amphibole Amphibole Muscovite	188.6 188.3 196.6	5.5 5.5 5.8	Amphibole-mica schist, approximate location, replicate amphibole analyses. Age recalculated using constants of Steiger and Jager (1977)	Carden and others, 1977
SD9-3	Jsch 3610	Seldovia	59.4667	151.7333	Schist	K/Ar	Crossite Phengite	157.8 192.9	4.8 5.7	Blueschist, possible argon loss, approximate location. Age recalculated using constants of Steiger and Jager (1977)	Forbes and Lanphere, 1973; Magoon and others, 1976; Carden and others, 1977
JD-1 (76181)	Jsch 3610	Anchorage	61.4883	149.2317	Greenschist	K/Ar	Actinolite	177	7	Actinolite epidote schist greenschist. Age recalculated using constants of Steiger and Jager (1977)	Carden and Decker, 1977, Winkler, 1992
F80-6A (Pavlis B)	Jsch 3610	Anchorage	61.6083	148.595	Amphibolite	K/Ar	Hornblende	107	5	Impure hornblende separate	Pavlis, 1982, 1983; Winkler, 1992
C80-28 (Pavlis D)	Jsch 3610	Anchorage	61.6633	148.5183	Amphibolite	K/Ar	Hornblende	121	8	Reset	Pavlis, 1982; 1983; Winkler, 1992

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
R2Y	^qd 4310	Afognak	58.06	153.4133	Dioritic migmatite	K/Ar	Hornblende	187.5	5.5	Dioritic migmatite, mean of 2 determinations. Age recalculated using constants of Steiger and Jager (1977)	Carden and others, 1977; Connelly, 1978; Connelly and Moore, 1979; Roeske and others, 1989
R4A	^qd 4310	Afognak	58.1467	153.2517	Diorite	K/Ar	Hornblende	192.7	5.7	Hornblende diorite, approximate location. Age recalculated using constants of Steiger and Jager (1977)	Carden and others, 1977; Connelly and Moore, 1979; Roeske and others, 1989
M2-1Z	^qd 4310	Afognak	58.2017	153.2067	Intrusive rock	Fission-track	Zircon	153		Afognak pluton, elevation 0m	Clendenen, 1991
M2-1Z	^qd 4310	Afognak	58.2017	153.2067	Intrusive rock	40/39	Feldspar	134.5		40/39 incremental heating, integrated age, range 150-120 Ma	Clendenen, 1991
ML-I1	^qd 4310	Afognak	58.2150	153.1650	Quartz diorite	U/Pb	Zircon	217 203.5		Coarse fraction Fine fraction	Roeske and others, 1989; Clendenen, 1991
B10-9Z	^qd 4310	Afognak	58.375	152.7817	Diorite	K/Ar	Hornblende	197.0	5.8	Hornblende diorite, recalculated using Steiger and Jager, 1977 constants	Carden and others, 1977, Connelly and Moore, 1979, Connelly, 1978, Roeske and others, 1989
BARREN	^qd 4310	Afognak	58.9433	152.2067	Quartz diorite	K/Ar	Hornblende	191	1.3	Ushagat Island, approx. location, 1976 constants	Cowan and Boss, 1978, Roeske and others, 1989
91DW 87	}g 4880	Seldovia	59.6075	151.1378	Gabbro	U/Pb	Zircon	227.7	0.6	Gabbro of Halibut Cove	Bradley and Karl, 2000; Bradley and Miller, 2006, and Dwight Bradley (per. commun., 2007)
1719L02	}g 4880	Anchorage	61.614	146.722	Gabbro	U/Pb	Zircon	198.7	0.5	Garnet-bearing gabbro	Rioux and others, 2007

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
72ASt 290	JPam 5550	Talkeetna Mountains	62.76	147.3083	Diorite	K/Ar	Hornblende	176.6	5.1	Diorite or amphibolite	Csejtey and others, 1978, Turner and Smith, 1974
Unknown rock units											
76JF 649		Iliamna	59.3167	154.0667	Unknown	K/Ar	Whole-rock	29.0	1.5	Estimated latitude and longitude. Location given as SE1/4 Sec. 7 T10S R2W, however location must be in R28W. Location near Contact Point. Age recalculated using constants of Steiger and Jager (1977)	R.G. Hickman, UNOCAL, written commun., 1996.
n.a.		Seldovia	59.5392	150.478	Not reported	40/39 Plateau	Sericite	55.6	0.1	Valdez Group, Beauty Bay Mine, altered rock, clear sericite	Haeussler and others, 1995
n.a.		Seldovia	59.5392	150.478	Not reported	40/39	Sericite	55.9	0.1	Valdez Group, Beauty Bay Mine, altered rocks, gold-colored sericite. Preferred date based on 37.2 percent of gas, disturbed spectra	Haeussler and others, 1995
n.a.		Seldovia	59.5428	150.18	Vein	40/39 Plateau	White mica	52.9	0.1	Thunder Bay gold occurrence, polymetalllic gold-sulfide vein	Haeussler and others, 1995
GT13		Iliamna	59.73	154.72	Andesite	K/Ar	Whole-rock	36.4		Rabbit Island, Iliamna Lake	Thrupp and Coe, 1986
RG075		Anchorage	61.043	149.1038	Not reported	40/39 Plateau	White mica	54.3	0.1	Hydrothermal alteration at Jewel Mine, Valdez Group	Haeussler and others, 1995
02PH 394A		Tyonek	61.4372	150.6489	Tuff	U/Pb	Zircon	~32		Andesite tuff, 1 concordant fraction	Haeussler and others (in prep, 2008)
2710M01		Anchorage	61.6243	148.6905	Metavolcanic / clastic	U/Pb	Zircon	202.1	1.2		Rioux and others, 2007
88pac 24		Anchorage	61.6417	148.6333	Not Reported	40/39 Total Fusion	Hornblende	180.4	1.0	Approximate location	Barnett and others, 1994

Sample	Map unit	Quadrangle	Latitude °N	Longitude °W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Comment	Reference
W32W		Anchorage	61.7817	149.4017	Vein	K/Ar	Muscovite	66.3		Lucky Shot Mine, gold bearing vein	Silberman and others, written comm., 1978
MLS 8		Anchorage	61.7833	149.405	Vein	K/Ar	Muscovite	66.3	2.0	Gold-bearing quartz vein in tonalite	Madden-McGuire and others, 1990, Winkler, 1992
99Pe 66		Talkeetna Mountains	62.2960	149.0562	Diorite	40/39 Plateau	Hornblende	251.1	2.1	Sample thought to contain significant excess argon. Isochron age was 241 ± 10.9	Drake and Layer, 2001
99MBW 529		Talkeetna Mountains	62.3583	149.0070	Schist	40/39 Plateau	Sericite	145.7	1.0	Quartz-sericite-pyrite schist	Drake and Layer, 2001
99MBW 541B		Talkeetna Mountains	62.3699	149.2170	Hornblendite	40/39 Isochron	Hornblende	63.0	8.4	Sample has had complex thermal history and significant excess argon. Age thought to be "reset." "Saddle" plateau age was 84.0 ± 1.2 may be too old.	Drake and Layer, 2001
CC36-659		Talkeetna Mountains	62.993	149.861	Greisen	40/39 Plateau	Muscovite	53.4	0.2	Coal Creek tin deposits. Plateau equals isochron age. Integrated age 53.7 ± 0.2	Clautice and others, 2001
N.A.	1001	Talkeetna Mountains	n.a.	n.a.	Rhyolite	U/Pb	Zircon	45.2	1.1	Weighted mean age, based on selected analysis of a suite of zircon; inclusion of all samples in weighted mean calculation yielded 45.5 ± 1.1 Ma	Oswald, 2006