

Table 1. Radiometric ages from the Prince William Sound and Cook Inlet region.

[Table sorted by map unit, from youngest map unit to oldest. 1:250,000-scale quadrangles: BS, Blying Sound; CV, Cordova; KN, Kenai; MI, Middleton Island; SR, Seward; SV, Seldovia; n.a. indicates data not available.]

Map unit	Sample number	Quad.	Lat. ° N	Long. ° W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Notes	References
Qad	78AR 290DK	KN	60.7167	152.6667	Andesite	K-Ar	Whole-rock	0.763	0.017	Dark band in banded andesite; minimum age	Reed and others, 1992
Qad	78AR 290LT	KN	60.7167	152.6667	Andesite	K-Ar	Whole-rock	0.627	0.024	Light band in banded andesite; minimum age	Reed and others, 1992
Qad	90AR 99	KN	60.77	152.7	Andesite	K-Ar	Whole-rock	0.887	0.015	Estimated latitude and longitude	Reed and others, 1992
Ts	7-14-73-3	KN	60.0683	151.6467	Ash	Fission-track	Zircon	8.5	1.0	Kenai Peninsula. Age revised in Turner and others, 1980.	Triplehorn and others, 1977; Turner and others, 1980
Ts	7-14-73-3	KN	60.0683	151.6467	Ash	K-Ar	Plagioclase	8.9	1.0	Kenai Peninsula. Age revised in Turner and others, 1980.	Triplehorn and others, 1977; Turner and others, 1980
Ts	7-13-73-9	KN	60.1858	151.4617	Ash	K-Ar	Plagioclase	7.0	0.7	Kenai Peninsula, location revised. Age revised in Turner and others, 1980.	Triplehorn and others, 1977; Turner and others, 1980
Ts	7-13-73-6	KN	60.205	151.4333	Ash	K-Ar	Hornblende Plagioclase	7.4 8.8	0.7 0.5	Kenai Peninsula, location revised. Age revised in Turner and others, 1980.	Triplehorn and others, 1977; Turner and others, 1980
Ts	DT75-200	KN	60.2358	151.4008	Ash	Fission-track	Zircon	6.60	0.7	Sterling Formation, Clamgulchian Stage	Turner and others, 1980
Ts	DT75-201	KN	60.205	151.435	Tuff	K-Ar	Hornblende Plagioclase	5.0 5.9	0.8 0.5	Crystal tuff. Mean of 2 splits for both minerals.	Turner and others, 1980

Map unit	Sample number	Quad.	Lat. ° N	Long. ° W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Notes	References
Ts	DT75-208	SV	59.7967	151.1117	Tuff	K-Ar	Hornblende Plagioclase	4.7 4.2	0.6 1.4	35m stratigraphically higher than DT75-206.	Turner and others, 1980
Ts	DT75-207	SV	59.7967	151.1117	Tuff	Fission-track	Zircon	4.9	0.8	24m stratigraphically higher than DT75-206.	Turner and others, 1980
Ts	DT75-207	SV	59.7967	151.1117	Tuff	K-Ar	Plagioclase	7.5 7.6	0.6 0.6	24m stratigraphically higher than DT75-206. Believed to be too old due to detrital contamination.	Turner and others, 1980
Ts	DT75-206	SV	59.7967	151.1117	Ash	Fission-track	Zircon	5.6	0.9	Composite of four thin beds.	Turner and others, 1980
Ts	DT75-206	SV	59.7967	151.1117	Ash	K-Ar	Plagioclase	4.6 8.4	0.7 0.7	Composite of four thin ash beds. 8.4 Ma age may be too old due to detrital contamination.	Turner and others, 1980
Ts?	DT75-209b	SV	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, 1980
Ts	DT75-212	SV	59.77	151.1333	Ash	K-Ar	Plagioclase	32.2 30.1	1.9 1.8	33m stratigraphically above DT75-211. Ages may be too old due to detrital contamination.	Turner and others, 1980
Ts	DT75-211	SV	59.77	151.1333	Ash	Fission-track	Zircon	5.4	0.6	20-40m stratigraphically above DT75-210.	Turner and others, 1980

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Ts	DT75-211	SV	59.77	151.1333	Ash	K-Ar	Plagioclase	11.7 14.1	0.9 1.1	20-40m stratigraphically above DT75-210. Ages may be too old due to detrital contamination.	Turner and others, 1980
Ts	DT75-210	SV	59.77	151.1333	Ash	K-Ar	Plagioclase	7.2	0.6	Sterling Formation, Clamgulchian Stage	Turner and others, 1980
Ts	6-25-77-1	SV	59.8233	151.0417	Ash	K-Ar	Plagioclase	6.9	0.5	Sterling Formation, Clamgulchian Stage	Turner and others, 1980
Tb	7-21-73-1	SV	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, 1980
Tb?	7-21-73-1	SV	59.7683	151.1575	Ash	K-Ar	Plagioclase	11.3	0.7	Beluga? Formation. Age revised in Turner and others, 1980.	Triplehorn and others, 1977; Turner and others, 1980
Tb?	7-21-73-5	SV	59.7058	151.28	Ash	Fission-track	Zircon	8.1	1.0	Beluga? Formation. Age revised in Turner and others, 1980.	Triplehorn and others, 1977; Turner and others, 1980
Tb	DT75-203	SV	59.7033	151.2783	Tuff	Fission-track	Apatite	12.9	5.1	Crystal vitric tuff mostly altered to clay.	Turner and others, 1980
Tb	DT75-203	SV	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, 1980
Tb	DT75-202	SV	59.71	151.2383	Tuff	K-Ar	Plagioclase	7.2	1.3	Crystal vitric tuff.	Turner and others, 1980
Tb	DT75-204	SV	59.7117	151.2683	Ash	Fission-track	Zircon	7.6	0.7		Turner and others, 1980

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Tb	DT75-204	SV	59.7117	151.2683	Ash	K-Ar	Plagioclase	8.1	0.7	Mean of 2 analyses	Turner and others, 1980
Tb?	7-22-73-4	SV	59.7617	151.1692	Ash	Fission-track	Zircon	8.1	1.0	Beluga? Formation. Age revised in Turner and others, 1980.	Triplehorn and others, 1977; Turner and others, 1980
Tb?	7-22-73-4	SV	59.7617	151.1692	Ash	K-Ar	Plagioclase	8.1	0.8	Beluga? Formation. Age revised in Turner and others, 1980.	Triplehorn and others, 1977; Turner and others, 1980
Tovs	71APr 23A	CV	60.8675	146.1692	Amphibolite	K-Ar	Hornblende	47.60	1.4	Greenschist facies amphibolite, location revised.	Winkler and Plafker, 1981; Nelson and others, 1985
Tdc	80AMH 159A	MI	59.7969	144.5864	Dacite	K-Ar	Whole-rock	6.2	.3	Dacite of Cape St. Elias.	Nelson and others, 1985
Tpv	72APr 76A1	MI	59.9133	144.3817	Basalt	K-Ar	Whole-rock	31.20	1.3	Basaltic dike from Kayak Island. Analytical data does not match reported age.	Winkler and Plafker, 1981; Nelson and others, 1985
Tm	72APr 22A1	CV	60.0000	144.1958	Diorite	K-Ar	Hornblende	200.5	29	Recalculated using constants of Steiger and Jager, 1977. Age highly suspect, too old.	George Plafker, written commun., 1986
Tov	72APr 2A3	CV	60.5567	145.7517	Basalt	K-Ar	Whole-rock	43.00	6.1	Recalculated using constants of Steiger and Jager, 1977.	George Plafker, written commun., 1986

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Tov	83APr 312	CV	60.9750	146.7183	Diabase	K-Ar	Whole-rock	130.00	14.0	Johnstone Cove. Recalculated using constants of Steiger and Jager, 1977. Age highly suspect due to excess argon.	George Plafker, written commun., 1986
Tod	92SN 5a	SR	60.8722	147.179	Mafic dike	40/39 Plateau	Plagioclase	37.6	0.6	Sheeted dike from ophiolite, approximate location.	Nelson and others, 1999
Tod	81BS 011A	BS	59.953	149.268	Basaltic rock	K-Ar	Whole-rock	49.6	2.5		Miller, 1984
Tod	81BS 011B	BS	59.953	149.268	Basaltic rock	K-Ar	Whole-rock	45.7	2.3		Miller, 1984
Tod	81BS 013K	BS	59.883	149.278	Basaltic rock	K-Ar	Whole-rock	47.3	2.4		Miller, 1984
Tod	81BS 017B	SR	60.350	147.6484	Mafic rock	K-Ar	Whole-rock	35	1.3		Miller, 1984
Tod	81BS 034E	SR	60.373	147.708	Mafic rock	K-Ar	Whole-rock	38.8	1.9		Miller, 1984
Togb	n.a.	BS	59.9491	149.2228	Plagiogranite	U-Pb	Zircon	57	n.a.	Plagiogranite intruding gabbro.	Nelson and others, 1989
Tg	PW8	SR	60.4503	148.1063	Quartz diorite	K-Ar	Biotite Hornblende	37.1 35.3	1.0 1.2	Eshamy Granite, age recalculated using constants of Steiger and Jager, 1977.	Lanphere, 1966; Magoon and others, 1976; Tysdal and Case, 1979; Nelson and others, 1985
Tg	PW9	SR	60.4917	148.3833	Quartz monzonite	K-Ar	Biotite	37.1	0.9	Nellie Juan Granite, age recalculated using constants of, Steiger and Jager, 1977.	Lanphere, 1966; Magoon and others, 1976; Tysdal and Case, 1979; Nelson and others, 1985

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Tg	PW2	SR	60.8227	148.0752	Granodiorite	K-Ar	Biotite	36.4	.9	Esther Granite, age recalculated using constants of Steiger and Jager, 1977.	Lanphere, 1966; Magoon and others, 1976; Tysdal and Case, 1979; Nelson and others, 1985
Tg	92SN 14	SR	60.9772	147.1485	Granite	40/39 Plateau	K-feldspar	29.2	0.1	Granite Cove. K-feldspar is suspect material for dating, probably too young.	Nelson and others, 1999
Tg	92SN 12	SR	60.9817	147.42	Granite	40/39 Isochron	K-feldspar	31.7	0.1	Cedar Bay. K-feldspar is suspect material for dating, probably too young.	Nelson and others, 1999
Tg	80ANS 60A	SR	60.74	147.9578	Granitic rock	K/Ar	Whole-rock	34.2	1.7	Granite/granodiorite on Perry Island. Inherently suspect because it is a whole-rock age on a granitic rock.	Nelson and others, 1985
Tgd	PW1	SR	60.8325	148.4675	Granodiorite	K-Ar	Biotite	37.6	1.0	Granite of Passage Canal, age recalculated using constants of Steiger and Jager, 1977.	Lanphere, 1966; Magoon and others, 1976; Tysdal and Case, 1979; Nelson and others, 1985
Tgg	85APr 140	CV	60.5383	145.1867	Dacite	K-Ar	Whole-rock	47.23	n.a.	Dacite porphyry.	George Plafker, written commun., 1986
Tgg	84APr 9	CV	60.5733	145.2517	Granodiorite	K-Ar	Biotite	51.4	1.5	North of McKinley Peak.	George Plafker, written commun., 1986

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Tgg	84APr 8	CV	60.7017	145.4867	Granodiorite	K-Ar	Biotite Hornblende	52.3 49.9	1.6 1.5	Near Shephard Glacier. Hornblende age is considered a minimum age.	George Plafker, written commun., 1986
Tgg	80ANS 148A	CV	60.589	144.4096	Granitic rock	K/Ar	Biotite Hornblende	52.7 51.3	1.6 2.9	South side of Miles Glacier.	Nelson and others, 1985
Tgg	67APr 1	CV	60.465	145.299	Granitic rock	K-Ar	Phlogopite	51.6	2	Northwest of McKinley Peak; location revised.	Winkler and Plafker, 1981; Plafker and others, 1985; Nelson and others, 1985
Tgg	71APr 25C	CV	60.4883	144.385	Granitic rock	K-Ar	Hornblende	53.5	1.6		Winkler and Plafker, 1981; Plafker and others, 1985; Nelson and others, 1985
Tgg	n.a.	CV	60.4883	144.395	Granodiorite	K-Ar	Biotite	52.2	n.a.		Tysdal and others, 1976; Plafker and Lanphere, 1974; Plafker, 1974
Tgg	71APr 20B	CV	60.61	144.19	Granitoid	K-Ar	Hornblende	50.6	1.5		Winkler and Plafker, 1981; Nelson and others, 1985
Tgg	71APr 20C	CV	60.6617	144.1783	Tonalite	K-Ar	Biotite	50.9	1.5		Winkler and Plafker, 1981; Nelson and others, 1985
Tgg	71APr 22c	CV	60.7067	146.1283	Granodiorite	K-Ar	Biotite Hornblende	53.2 50.5	1.6 1.5	Location revised.	Winkler and others, 1981; Plafker and others, 1985; Nelson and others, 1985

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Tgg	94APo 36	CV	60.7636	144.1897	Tonalite	U-Pb	Zircon	See footnote		Sill, Van Cleve Glacier.	Poole, 1996
Tgg	94APo 36 ¹	CV	60.7636	144.1897	Tonalite	U-Pb	Monazite	54.3 54.4 54.0	n.a.	Sill, Van Cleve Glacier. Age dependent on size fraction, 207Pb/235U reported.	Poole, 1996
Tgg	94APo 36	CV	60.7636	144.1897	Tonalite	U-Pb	Xenotime	See footnote		Sill, Van Cleve Glacier.	Poole, 1996
Tgg	94APo 47	CV	60.7625	144.2120	Tonalite	U-Pb	Zircon	See footnote		Van Cleve Glacier area.	Poole, 1996
Tgh	88ACy 9	SV	59.4733	150.3367	Granodiorite	U-Pb	Monazite	56.0	0.5		Bradley and others, 1999
Tgh	92AKu 71b	SV	59.9774	150.1611	Granodiorite	40/39 Plateau	Biotite	53.2	1.1	Tustemena pluton.	Bradley and others, 1999; 2000
Tgh	88ACy 9	SV	59.4733	150.3367	Granodiorite	40/39 Isochron	Biotite	54.2	0.08	Nuka pluton.	Bradley and others, 1999; 2000
Tgh	88ACy 9	SV	59.4733	150.3367	Granodiorite	U-Pb	Monazite	56	0.5	Nuka pluton.	Bradley and others, 1999, 2000

¹ This U-Pb data are of minimal and generally unusable quality. All fractions of zircons contain significant inheritance, severely complicating interpretations. Regressions through the data are not useful because the lower intercepts have huge uncertainties due to a combination of inheritance and subsequent Pb-loss. The monazite data probably are good. However, the age should be calculated from the 207/235 ages (because there is frequently excess 206 in young monazite, making the 206/238 age too old and the 207/206 age too young). Thus, the age of 94APo36 probably is about 54 Ma (can't calculate a weighted aver. age without uncertainties). From the 206/238 ages of zircons from the other samples, a crude estimate of an age constraint for 94APo47 is <62 Ma. In summary, the age for 94APo36 is well constrained to be about 54 Ma. All other ages are relatively unknown. Thus, any tectonic scenario from these age data are untenable (J.N. Aleinikoff, USGS, written commun., 2007).

Map unit	Sample number	Quad.	Lat. ° N	Long. ° W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Notes	References
Tgh	91ADw 55g	SV	59.8828	150.4638	Granodiorite	40/39	Biotite	54.2	1.1	Chernof Stock.	Bradley and others, 2000
Tgh	91AKu 3	BS	59.7917	149.9917	Granodiorite	40/39 Plateau	Biotite	51.1 53.5 49.6 52.2	0.5 0.5 1.7 0.9	Aialik pluton, three biotite analyses and weighted mean age. Quadrangle incorrect in source.	Bradley and others, 2000
Tgh	n.a.	SV	59.7083	150.135	Granodiorite	40/39 Plateau	n.a.	53.4	1.5	Paguna stock, approximate location.	Bradley and others, 1999
Tgh	n.a.	BS	59.7067	149.5233	Granite	K-Ar	Biotite Muscovite	61.0 56.0	1.8 1.6	Granite of Harding Icefield region, southern tip of Aialik Peninsula. Age recalculated using constants of Steiger and Jager, 1977.	Tysdal and Case, 1979
Tgh	91AKu 3	BS	59.7917	149.9917	Granodiorite	40/39	Biotite	52.2	0.9	Aialik pluton, Harris Bay.	Bradley and others, 2000
Tgh	95TD 2b	BS	59.89	149.3733	Granodiorite	40/39	Biotite	53.3 53.5 53.4 53.4	0.6 1.0 0.5 0.4	Hive Island pluton. Three biotite analyses and weighted mean age.	Bradley and others, 2000
Tgh	92PH 454B	SV	59.5428	150.1807	Granite	40/39 Plateau	Biotite	53.7	0.1	Thunder Bay granitic sill, slightly disturbed spectrum.	Haeussler and others 1995; Bradley and others, 2000
Tgh?/ TKd	90ADW 809	SV	59.3430	151.8212	Andesite	40/39 Plateau	Amphibole	58.64	0.52	Andesite dike, might have intruded Port Graham formation near Port Graham. Age may be suspect due to excess argon.	Lytwyn and others, 2000

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Tmu	85ANk 96B	CV	60.6967	145.5183	Gabbro	K-Ar	Hornblende	64.5	2.1	Suspect, age is older than country rock which gabbro intrudes.	George Plafker, written commun., 1986; Winkler and Plafker, 1993
Tmu	85APr 177	CV	60.6762	145.4978	Altered gabbro	K-Ar	Hornblende	48.5	1.5	Altered clinopyroxene gabbro in written report, reported as hornblende gabbro on map.	George Plafker, written commun., 1986; Winkler and Plafker, 1993
TKgd	70AR 146	KN	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
TKgd	70AR 147	KN	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
TKgd	70AR 140	KN	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; Determan and others, 1976
TKd	92SN 4	SR	60.9867	147.5138	Porphyry	40/39 Isochron	K-feldspar	31.1	0.2	Unakwik Inlet, approximate location. K-feldspar is suspect material for dating, probably too young.	Nelson and others, 1999
TKd	81BS 116C	SR	60.6155	149.5680	Felsic igneous rock	K/Ar	Whole-rock	52.5	1.6	Dike, Oracle Mine, cutting Valdez Group (Kvs).	Nelson and others, 1985; Bradley and others, 1993

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TKd	88ADw 230	SV	59.3933	150.665	Intermediate igneous rock	40/39 Isochron	Hornblende	57	0.22	Leucocratic porphyry dike containing feldspar and hornblende phenocrysts; cuts the McHugh Complex near head of Seldovia Bay.	Bradley and others, 1993, 1999, 2000
TKd	93ASB 66	SV	59.3938	151.2186	Basaltic andesite	40/39 Plateau	Hornblende	115	1.7	Hornblende-phyric basaltic andesite dike cutting graywacke of McHugh Complex 4 km SE of the head of Tutka Bay.	Bradley and others, 1999, 2000
Kqd	70AR 158	KN	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; Dettnerman and others, 1976
Kqd	70AR 179	KN	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; Dettnerman and others, 1976
Kqd	70AR 173	KN	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
Kvv	81BS 001A	BS	59.929	149.324	Metatuff	K-Ar	Whole-rock	54.4	2.7	Fox Island.	Miller, 1984
Kvgs	81KMS 25	SR	60.3974	149.2185	Biotite semischist	K/Ar	Unknown	51.5	1.5	Metamorphic age of Valdez Group schist unit (Kvgs) along Placer River Fault.	Nelson and others, 1985

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Jnc	62ALe 6e	KN	60.1133	152.585	Quartz diorite	K-Ar	Biotite Hornblende	156.6 159.7	n.a. n.a.	Rounded granitic boulders within the Chisik Conglomerate Member of the Naknek Formation. Recalculated age using constants of Steiger and Jager, 1977.	Detterman and others, 1965; Magoon and others, 1976
Jqd	62ALe 5	KN	60.2533	152.886	Granodiorite	K-Ar	Biotite Hornblende	174.0 171.9	n.a. n.a.	Alaska-Aleutian Range batholith, recalculated using constants of Steiger and Jager, 1977	Detterman and others, 1965, Reed and Lanphere, 1969, 1972; Magoon and others, 1976
Jqd	70AR 175	KN	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
Jqd	70AR 177	KN	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
Jqd	70AR 178	KN	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

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Jqd	66AR 1464	KN	60.8033	152.355	Quartz monzonite	K-Ar	Biotite	159.0	n.a.	Age recalculated using constants of Steiger and Jager, 1977.	Reed and Lanphere, 1969, 1972, 1973; Magoon and others, 1976; Detterman and others, 1976
Jqd	70AR 156	KN	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
Jsch	7AF23-9	SV	59.0033	151.7067	Schist	K-Ar	Muscovite	194.7	5.7	Quartz-mica schist, approximate location, age recalculated using constants of Steiger and Jager, 1977.	Carden and others, 1977
Jsch	74PG79	SV	59.37	151.81	Schist	K-Ar	Muscovite	196.1	5.8	Quartz-mica schist, approximate location, age recalculated using constants of Steiger and Jager, 1977.	Carden and others, 1977
Jsch	SD3-3	SV	59.4617	151.7067	Greenschist	K-Ar	Actinolite Chlorite White mica	195.0 185.1 192.3	11.0 8.3 10.0	Approximate corrected location, constants of Steiger and Jager, 1977.	Forbes and Lanphere, 1973; Magoon and others, 1976; Carden and others, 1977

Map unit	Sample number	Quad.	Lat. ° N	Long. ° W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Notes	References
Jsch	74AF4B.1	SV	59.4617	151.7067	Schist	K-Ar	Amphibole	166.8	4.9	Blueschist, crossite date, approximate location, recalculated using constants of Steiger and Jager, 1977.	Carden and others, 1977
Jsch	74AF23-10	SV	59.4617	151.7067	Schist	K-Ar	Amphibole Muscovite	188.4 196.6	5.5 5.8	Amphibole-mica schist, approximate location, amphibole is average of 2 splits, age recalculated using constants of Steiger and Jager, 1977.	Carden and others, 1977
Jsch	SD9-3	SV	59.4667	151.7333	Schist	K-Ar	Crossite Phengite	157.8 192.9	4.8 5.7	Blueschist, crossite date may reflect argon loss, approximate location, recalculated using constants of Steiger and Jager, 1977.	Forbes and Lanphere, 1973; Magoon and others, 1976; Carden and others, 1977
Jsch	92ATi 316D	SV	59.4479	151.7145	Schist	40/39 Plateau	White mica	190.98	0.3	Seldovia metamorphic complex.	Bradley and Karl, 2000, A. Till (oral commun., 2007)
Jsch	92ATi 309B	SV	59.4547	151.7153	Schist	40/39 Plateau	Barroisite	191.92	0.6	Seldovia metamorphic complex, quartz-white mica-chlorite schist	Bradley and Karl, 2000, A. Till (oral commun., 2007)
Jsch	92ATi 309B	SV	59.4547	151.7153	Schist	40/39 Plateau	Muscovite	191.7	.3	Seldovia metamorphic complex, quartz-white mica-chlorite schist	Bradley and Karl, 2000, A. Till (oral commun., 2007)

Map unit	Sample number	Quad.	Lat. ° N	Long. ° W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Notes	References
Mzg	91DW 87	SV	59.6075	151.1378	Gabbro	U-Pb	Zircon	227.7	0.6	Gabbro of Halibut Cove. Sample number uncertain.	Bradley and Karl, 2000; Bradley, oral commun., 2007
Dates recording hydrothermal alteration											
--	92PH 216f	SR	60.972	148.2112	Granite	40/39	White mica	>53	--	Granite Mine, hydrothermally altered granite. 30% of mica was light green (chlorite?); analysis shows argon loss spectra, no plateau.	Haeussler and others, 1995
--	n.a.	SV	59.3195	151.2917	Felsic dike	40/39	White mica	57.3	0.1	Port Dick prospect, preferred hydrothermal alteration date from single gas release step (1000° C) and 67.8 percent of gas.	Haeussler and others, 1995
--	n.a.	SV	59.5392	150.4780	n.a.	40/39 Plateau	Sericite	55.6	0.1	Beauty Bay Mine, altered rock, clear sericite.	Haeussler and others, 1995
--	n.a.	SV	59.5392	150.4780	n.a.	40/39	Sericite	55.9	0.1	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.	SV	59.5428	150.1800	Vein	40/39 Plateau	White mica	52.9	0.1	Thunder Bay gold occurrence, polymetallic gold-sulfide vein.	Haeussler and others, 1995

Map unit	Sample number	Quad.	Lat. ° N	Long. ° W	Rock type	Method	Mineral	Age (Ma)	Error (m.y.)	Notes	References
Tdf	2203N	SR	60.6667	149.75	Felsic igneous rock	K-Ar	Whole-rock	52.7	1.6	Kenai Star Mine(?), hydrothermally altered felsic dike, approximate location.	Silberman and others, 1981; Mitchell and others, 1981; Haeussler and others, 1995
Tdf	2237B	SR	60.8	149.667	Granite	K-Ar	Muscovite	53.2	1.6	Hydrothermally altered albite-granite dike, approximate location.	Silberman and others, 1981; Mitchell and others, 1981; Haeussler and others, 1995
Tg?	92PH 216e	SR	60.972	148.2112	Granite	40/39	Biotite	56.	1.	Granite Mine, hydrothermally altered granite. Disturbed spectrum, chlorite present, date is weighted average and of low confidence.	Haeussler and others, 1995