RADIOMETRIC DATA

NO.	LATITUDE	LONGITUDE	UNIT	MINERAL	ISOTOPES	AGE(Ma)	NOTES	REFERENCES
1	51°49'00"	120°03'30"	EKgm	biotite	K-Ar	140±9	Probable minimum age. North of map-area.	Wanless, et al. 1967, p.25. Campbell and Tipper, 1971, p. 75
2	51°41'20"	120°07'25"	EKgm	biotite	K-Ar	105±9	Possibly partially reset.	Wanless, et al. 1967, p. 26. Campbell and Tipper, 1971, p. 75.
3	51°40'24"	119°26'42"	Jgn	biotite	K-Ar	54.4±2.3	Eocene thermal event and/or cooling date. Orthogneiss of possible Palaeozoic(?) age.	GSC internal report K-Ar 2505.
4	51°36'36"	119°26'00"	Jgn	hornblende	K-Ar	107±5	Hybrid(?) date, Jura-Cretaceous metamorphism affected by Eocene thermal event. Orthogneiss of possible Palaeozoic(?) age.	GSC internal report K-Ar 2502.
5	51°31'	119°56'	€OEBva?	biotite	K-Ar	99.3±3	Possible mimimum age of contact metamorphism associated with Baldy Batholith	Belik, 1974
6	51°20'40"	120°24'00"	EJgd	biotite hornblende	K-Ar K-Ar	194±10 198±12	Probable minimum age. West of map-area.	Campbell and Tipper, 1971, p. 71.
7	51°27'	119°56'	Kgm	biotite	K-Ar	96±5	Probable minimum age.	Wanless, et.al., 1966, p. 16. Campbell and Tipper, 1971, p. 75.
8	51°17'	119°42'30"	LDgn?	biotite	K-Ar	126±4	Hybrid date. Mesozoic regional metamorphism partially reset by thermal effects associated with satellitic stock of Baldy Batholith.	Belik, 1974
9	51°17'	119°37'	LDgn?	biotite	K-Ar	93±4	Possible minimum age of contact metamorphism associated with satellitic stock of Baldy Batholith.	Belik, 1974
10	51°17'20"	119°29'40"	Kgm	biotite	K-Ar	80±6	Partially reset by Eocene thermal event.	Wanless, et.al., 1966, p. 16. Campbell and Tipper, 1971 p. 75.
11	51°17'	118°28'	eTKv	phlogopite	K-Ar	41±10	North-trending lamprophyre dyke. Frenchman's Cap gneiss dome. East of map-area.	Wanless, et.al., 1965, p. 11.
12	51°12'20"	119°25'00"	LDgn	zircon	Pb-U	372±6	Intrusive age from chord established by 4 analyses. Lower intercept 50-175 Ma.	Okulitch, et al., 1975.
13	51°04'20"	119°21'30"	Kgm?	biotite	K-Ar	46±5	eocene thermal event and/or cooling date. Intrusive age possibly Cretaceous.	Wanless, et al., 1966, p. 17.
14	51°03'00"	119°03'59"	LDgn	zircon	Pb-U	372±6	See sample 9.	Okulitch, et al., 1975.
15	51°02'45"	119°03'58"	LDgn LDgn	zircon zircon	Pb-U F.T.	372±6 43.1±4.2	See sample 9. Eocene thermal event and/or cooling date.	Okulitch, et al., 1975. C. Naeser, personal communication, 1975.
16	51°03'37"	118°55'28"	LDgn Jgn	biotite muscovite	K-Ar K-Ar	45.8±2.5 46.4±2.4	Eocene thermal event and/or cooling date. Eocene thermal event and/or cooling date. Pegmatite intruding unit LDgn.	Wanless, et al., 1978, pp.24,25.
17	50°55'12"	119°48'21"	LOgn	zircon	Pb-U	449±20	Intrusive age from chord established by 4 analyses. Lower intercept 110 Ma, either the time of cessation of regional metamorphism (see samples 15,16,17,18,19) or intrusion of nearby Cretaceous(?) plutons.	GSC internal report on sample 38CAc72-1.
18	50°48'	119°42'	€Oscq	biotite muscovite	K-Ar K-Ar	135 140	Probable time of regional metamorphism.	Lowdon, et al., 1963, pp. 5,6.
19	50°49'30"	119°40'00"	LOgn	biotite	K-Ar	140	Probable time of regional metamorphism.	Lowdon, et al., 1963, p. 5 (position corrected).
20	50°51'40"	119°38'56"	LOgn	biotite	K-Ar	142±5	Probable time of regional metamorphism.	GSC internal report K-Ar 3011.
21	50°50'12"	119°38'18"	LOgn	zircon biotite	Pb-U K-Ar	449±20 127±5	See sample 14. Probable time of regional metamorphism.	GSC internal report on sample 110 CAa 74-1. Wanless, et al., 1978, p. 24.
22	50°50'25"	119°37'40"	Jgn?	biotite hornblende	K-Ar K-Ar	131±5 154±9	Foliated granite with biotite clots intruding unit LOgn. Time of regional metamorphism and/or syntectonic intrusion.	GSC internal reports K-Ar 2984, 2985
23	50°45'24"	119°19'30"	EKgd	biotite muscovite	K-Ar K-Ar	75.6±2.9 108±4	Partially reset date. Probable minimum intrusive age.	Wanless, et al., 1978, p. 24.
24	50°56'39"	118°58'15"	LDgn	zircon zircon	Pb-U F.T.	372±6 51.3±8.2	See sample 9. Eocene thermal event and/or cooling date.	Okulitch, et al., 1975. C. Naeser, personal communication, 1975.
25	50°57'23"	118°56'35"	Jgn?	zircon biotite muscovite	Pb-U K-Ar K-Ar	1077 49.2±2.3 51.8±2.4	Granite sill intruding unit €OEBq. Data point falls near chord previously established for orthogneiss in core of Thor-Odin dome (Wanless and Reesor, 1975) suggesting derivation of zircons from Proterozoic (1960 Ma) basement. Field relationships suggest Mesozoic emplacement. Affected by Eocene thermal event.	GSC internal report on sample 150CAa73-1. GSC internal reports K-Ar 2351, 2352
26	50°55'12"	118°55'36"	LDgn	biotite hornblende	K-Ar K-Ar	47.6±2.5 92.1±4.2	Eocene thermal event and/or cooling date. Hybrid date possibly reflecting Mesozoic regional metamorphism and Eocene event.	GSC internal reports 2529, 2530.
27	50°32'48"	118°55'36"	PTm	zircon biotite hornblende	Pb-U K-Ar K-Ar	235 63.4±2.5 52.3±3.1	Upper intercept of chord established by 4 analyses possibly indicating age of extrusion of basic metavolcanic unit or a hybrid date derived from intensive resetting of older zircons during Mesozoic orogenic events. Lower intercept 55Ma coincident with Eocene thermal event and/or cooling dates.	GSC internal report on sample 86CAa73-1Z. Wanless, et al., 1978, p. 25.
28	50°30'	118°50'	eTKv uTR sp EPns	biotite, muscovite and hornblende	K-Ar K-Ar K-Ar	42-48 72-146 44-59	Individual sample positions unknown. Unresolved geochronologic situation likely involving Mesozoic regional metamorphism, variable closure of K-Ar system (Jurassic to Eocene), Eocene thermal event and Eocene volcanic eruption.	Mathews, 1976.
29	50°34'	118°43'	Jgn EPns	biotite biotite	K-Ar K-Ar	57 52	Eocene thermal and/or cooling event.	Lowdon, et al., 1963, p. 6.
30	50°15'	119°17'	TR JNv?	hornblende	K-Ar	178±6	Sample location uncertain. Amphibolite sill in unit CPTA. Time of regional metamorphism or time of emplacement of feeder sill to unit TR JNv.	Solberg, 1977.
31	50°15'	119°15'	Jgn	whole rock	Rb-Sr	42±10	Position uncertain. Syntectonic granitoid sill. Eocene thermal event.	Solberg, 1977.
32	50°15'	119°09'	Psc? or TR JNv?	biotite	K-Ar	62	Position uncertain. Eocene thermal event and/or cooling date.	Lowdon, 1961.
33	50°23'27"	118°00'48"	LDgn	zircon	Pb-U	373±3	East of map-area. Chord defined by 3 analyses. Probable intrusive age. Lower intercept 64Ma coincident with Eocene thermal event and/or cooling date.	GSC internal report on sample CAa75-1.
34	50°13'12"	119°36'42"	PTy	biotite	K-Ar	45.8±2.5	Possible intrusive age, associated with Eocene thermal event.	Wanless, et al., 1978, p. 24.
35	50°08'18"	119°37'30"	eTKv	biotite	K-Ar	47±2	Extrusive age.	Mathews, 1964.
36	49°42'42"	120°05'38"	LJgd	W.R.	Rb-Sr	154±6	South of map-area. One point of 15 point isochron. Probable intrusive age.	Peto and Armstrong, 1976.
37	49°53'12"	120°01'29"	EJgd	W.R.	Rb-Sr	166±53	One point of 10 point isochron. Minimum intrusive age. Medford (1975) reports biotite K-Ar dates up to 185 Ma which is the probable intrusive age.	Peto and Armstrong, 1976.
38	49°52'51"	120°00'00"	EJgd	biotite	K-Ar	148±6	Brenda Mine. Partially reset dates. See sample 34.	White, et al., 1968.
39	49°51'36"	119°17'12"	PMn	hornblende apatite sphene	K-Ar F.T. F.T.	52.2±1.5 46.4±4.6 46.1±11	Eocene thermal event and/or cooling dates.	Medford, 1975b.
40	49°48'00"	119°06'06"	eTKv	biotite	K-Ar	46±2	South of map-area. Extrusive age.	Mathews, 1964.
41	49°53'00"	118°41'30"	PMn	biotite	K-Ar	47.8±3.2	Eocene thermal event and/or cooling date.	GSC internal report K-Ar 2420.
42	49°58'	118°18'	EJgd?	biotite	K-Ar	96	Position uncertain (Monashee Pass?). Possibly reset date or minimum intrusive age.	Baadsgaard, et al., 1961.

PALAEONTOLOGICAL DATA

NO.	LATITUDE	LONGITUDE	UNIT	AGE	NOTES	REFERENCES
1	51°52'42"	120°03'16"	eTKs	undetermined	Plant remains. North of map-area.	Campbell and Tipper, 1971, p.48.
2	51°30'50"	120°13'10"	uTR Ns	Karnian to Pliensbachian	Belemnoid, ammonoid and pectenid fragments.	Campbell and Tipper, 1971, p.32
3	51°27'18"	120°12'56"	uTR Ns?	undetermined	Fossils not described. Position approximate.	Campbell and Tipper, 1971, map 1278A.
4	51°28'59"	120°12'42"	uT Ns?	undetermined	Fossils not described. Position approximate.	Campbell and Tipper, 1971, map 1278A.
5	51°28'06"	120°12'38"	uTR Ns	Late Triassic	Belemnoid, crinoid columnals spiriferoid brachippods.	Campbell and Tipper, 1971, p.33.
6	51°27'41"	120°07'50"	eTKs	middle Eocene	Fossil flora, spores and pollen. GSC loc. 7070	Campbell and Tipper, 1971, p.49.
7	51°19'10"	120°07'34"	eTKs	middle Eocene	Fossil flora, spores and pollen. GSC loc. 7069	Campbell and Tipper, 1971, pp.48, 49.
8	51°14'01"	119°56'38"	MMc	Mississippian: late Osagean to early Meramecian.	Abundant and diverse macro-fauna and conodont collection. GSC loc. 86349	Okulitch and Cameron, 1976. Position corrected.
9	50°52'05"	120°07'15"	CPTAs	undetermined	Bryozoa, crinoid stems. Position approximate.	Cockfield, 1948, pp. 9-11.
10	50°50'15"	120°05'55"	CPTAs	undetermined	Broyozoa, crinoid stems. Position approximate.	Cockfield, 1948, pp. 9-11
11	50°52'15"	120°05'39"	CPTAs	undetermined	Crinoid stems.	W.H. Mathews, personal communication, 1975
12	50°46'40"	120°00'05"	CPTAs	undetermined	Bryozoa, crinoid stems. Position approximate.	Cockfield, 1948, pp. 9-11.
13	50°48'15"	119°59'25"	CPTAs	undetermined	Fossils not described. Position approximate.	Jones, 1959, map.
14	50°47'10"	119°59'00"	CPTAs	undetermined	Fossils not described. Position approximate.	Jones, 1959, map.
15	50°48'00"	119°58'25"	CPTAs	undetermined	Fossils not described. Position approximate.	Rice, 1946.
16	50°42'02"	120°14'00"	uTR Ns	Late Triassic, Karnian	Conodonts. Identified by B.E.B. Camerson, G.S.C.	
17	50°41'22"	120°10'35"	CPTAc	Late Mississippian - Early Pennsylvanian	Foraminifera including Hexaphyllia. Identified by W.R. Danner, U.B.C.	R. Smith, personal communication, 1976; MSc. thesis in preparation, University of British Columbia.
18	50°41'14"	120°10'32"	CPTAs	Late Mississippian, Chesterian	Productid brachipods.	
19	50°41'00"	120°09'00"	CPTAc	Carboniferous or Permian	Productid brachiopods, bryozoa. Position approximate. G.S.C. loc. 64910	Campbell and Tipper, 1971. p. 22.
20	50°41'15"	120°08'15"	CPTAc	Early Pennsylvannian	Fusulinids.	Sada and Danner, 1974
21	50°40'18"	120°07'18"	CPTAc	Early Pennsylvanian	Fusulinids, foraminifera, pteropods, crinoids, brachiopods and rare corals. Loc. S. Thompson Nos. 1 and 2.	Sada and Danner, 1974.
22	50°40'05"	120°06'23"				
23	50°43'10"	120°06'05"	CPTAc	Early Pennsylvanian	Crinoids, brachiopods, corals.	Cockfield, 1948, pp. 9-11. Sada and Danner, 1974, figure 3.
24	50°43'20"	120°05'25"	CPTAc	Early Permian	Fossils not described	Cockfield, 1948, pp. 9-11 and map 886A.
25	50°43'55"	120°05'20"			Corals	Sada and Danner, 1974 figure 3.
26	50°43'00"	120°05'10"				
27	50°42'25"	120°05'05"	CPTAc	Early Permian	Schwagerina, corals. Station 282 CAa72	This report. Identified by W.R. Danner.
28	50°40'40"	120°05'00"	CPTAc	Early Pennsylvanian	See samples 21, 22. Loc. N. McGregor Creek	Sada and Danner, 1974.
29	50°42'30"	120°04'40"	CPTAc	Early Pennsylvanian	Crinoids, brachiopods, corals.	Cockfield, 1948, pp 9-11. Sada and Danner, 1974, Figure 3.
30	50°42'20"	120°04'05"	CPTAc	Early Permian	Fusulinids, corals	Cockfield, 1948, pp. 9-11. Sada and Danner, 1974, figure 3.
31	50°43'00"	120°04'00"	CPTAc	undetermined	Echinoderm columnals. Position approximate GSC loc. 64907	Campbell and Tipper, 1971, p.23.
32	50°41'00"	120°04'00"	CPTAc	Late Permian; Guadalpian	Parafusulina (?) sp., productid brachiopods, echinoderm columnals. Position approximate, GSC loc. 64915.	Campbell and Tipper, 1971, p. 23
33	50°42'20"	120°03'50"	CPTAc	Permian; Late Leonardian	Parafusulinids. Station 279 CAa 72.	This report. Identified by W. R. Danner.
34	50°32'00"	120°03'50"	eTKs	Tertiary?	Fossil plants.	Cockfield, 1948, p. 36.
35	50°41'20"	120°03'35"	CPTAc	Early Pennsylvanian	See samples 21, 22, 28. Loc. Upper Harper Ranch.	Sada and Danner, 1974.
36	50°40'06"	120°03'30"	CPTAc	Early Permian; Wolfcampian	Fusulinids. Station 277 CAa 72.	This report. Identified by W.R. Danner.
37	50°41'30"	120°03'10"	CPTAc	Early Pennsylvanian	See samples 21, 22,28,35. Loc. Robins Lake.	Sada and Danner, 1974.
38	50°40'50"	120°02'35"	CPTAc	Early Permian	Brachiopods. Station 280CAa 72.	This report. Identified by W.R. Danner.
39	50°42'30"	120°01'50"	CPTAc	Early Pennsylvanian	Fossils undescribed.	Sada and Danner, 1974, figure 3.
40	50°42'18"	120°01'20"	CPTAc	Early Permian.	Fossils undescribed.	Sada and Danner, 1974, figure 3.
41	50°42'35"	119°12'05"	uTR Sc	undetermined	Crinoids? Undetermined fossil fragments. Position approximate.	Rice, 1946. Jones, 1959, map 1059A.
42	50°17'30"	120°15'45"	uTR Ns	Mesozoic	Pectinacea sp. indet. GSC loc. 93641. West of map-area.	Poulton, 1976.
43	50°20'50"	119°56'30"	uTR Ns	Late Triassic; late Karnian	Small and fragmentary conodont collection. GSC loc. 86350.	Okulitch and Cameron, 1976.
44	50°20'48"	119°56'13"	PCv	Late Ordovician - Silurian	Possible halysitid coral of dubious organic origin	S.J. Nelson, personal communication, 1979
45	50°21'05"	119°56'10"	uTR Ns	undetermined	Siliceous skeletal material. Sample 55CAc72-4F.	This report. Identified by B.E.B. Cameron.
				undetermined	Crinoids? Undetermined fossil fragments.	Preto, 1964.
46	50°21'12"	119°56'05"	uTR Ns	undetermined	Crinoids? Undetermined fossil fragments	Preto, 1964
47	50°28'50"	119°41'25"	CPTAc	Late Palaeozoic?	Crinoids, foraminifera, rugose coral fragment. Station 46CAa 74.	This report.
48	50°23'00"	119°40'20"	CPTAc	Late Palaeozoic?	Foraminifera, crinoids, undetermined fossil fragments. Station 112CAa74	This report.
49	50°29'13"	119°38'35"	CPTAc	Late Pennsylvanian - Early Permian	Chonetes sp., Foraminifera, Schwagerina, Triticites. Loc. F-4.	Jones, 1959, p. 45.
50	50°23'05"	119°35'17"	CPTAc	Permian	Parafusulinids, Schwagerina, corals, brachiopods. Loc. F-3.	Jones, 1959, p. 45.
51	50°18'05"	119°32'36"	CPTAc	undetermined	Crinoids.	A.G. Jones, field notes and maps, 1946-51. Jones, 1959, map 1059A.
52	50°18'03"	119°30'10"				
53	50°18'30"	119°29'00"	eTKv?	undetermined	Fossils not described. Position approximate.	Jones, 1959, map 1059 A.
54	50°17'50"	119°29'00"	CPTAc	Permian	Variety of brachiopods, bryozoa, Schwagerina sp. Parafusulina sp. Loc. F-1.	Jones, 1959 pp. 43, 44.
55	50°17'30"	119°28'15"	CPTAc	undetermined	Fossils not described.	Rice, 1946. A.G. Jones, field notes and maps, 1946-51.
56	50°13'35"	119°27'45"	CPTAc	Permian	Diverse brachiopod collection. Crinoids. Loc. F-1.	Jones, 1959, p. 44.
57	50°18'00"	119°27'50"	CPTAc	undetermined	Brachiopod and undetermined fragments. Sample 37CAa73.	This report.
58	50°17'10"	119°27'00"	CPTAc	undetermined	Fossil fragments not described.	A.G. Jones, field notes and maps, 1946-51.
59	50°17'25"	119°26'50"				
60	50°28'10"	119°26'20"	uTR Sp	undetermined	Fossil spines. Sample 75CAc72-1F.	This report. Identified by B.E.B. Cameron.
61	50°16'15"	119°20'35"	CPTAc	undetermined	Crinoids and undetermined fragments.	A.G. Jones, field notes and maps, 1946-51.
62	50°15'45"	119°19'50"	CPTAc			
63	50°15'02"	118°53'20"	uTR Sc	Late Triassic;early Norian.	Small and fragmentary conodont collection. GSC Loc. 86351.	Okulitch and Cameron, 1976. Position corrected.
64	50°14'00"	119°59'10"	CPTAc	undetermined	Undetermined fossil fragments.	A.G. Jones, field notes and maps, 1946-51.
65	50°03'55"	119°50'45"	CPTAs			
66	50°00'30"	119°44'00"	CPTAs	undetermined	undetermined fossil fragments. Position approximate.	Jones, 1959, map 1059A.
67	50°00'25"	119°42'40"	CPTAc	undetermined	Coral (?) fragments.	A.G. Jones, field notes and maps, 1946-51.
68	50°13'40"	119°18'20"	CPTAc	undetermined	Fossils not described. Fragments. Position approximate.	Jones, 1959, map 1059A.
69	50°11'45"	119°09'45"	CPTAcg?	undetermined	Undetermined fragments in limy conglomerate.	A.G. Jones, field notes and maps, 1946-51.
70	50°14'35"	119°07'50"	CPTAc	undetermined	Crinoid columnals.	Preto, 1964
71	50°14'29"	119°07'50"				
72	50°12'25"	119°07'45"	CPTAc	undetermined (Late Palaeozoic?)	Corals, crinoids.	A.G. Jones, field notes and maps, 1946-51.
73	50°14'22"	119°07'34"			Bryozoa and corals	
74	50°12'00"	119°07'00"	CPTAc	undetermined	undetermined fragments. Position approximate.	Jones, 1959, map 1059A.
75	50°14'37"	119°05'03"	CPTAc	undetermined (Late Palaeozoic?)	Coral, crinoid fragments.	A.G. Jones, field notes and maps, 1946-51.
76	50°12'40"	119°04'53"	CPTAc	Permian	Crinoid, productid and coral fragements, Syringopora sp. Loc. F-8.	Jones, 1959, p. 47.
77	50°14'00"	118°54'30"	CPTAc	undetermined	undetermined fragments. Position approximate.	Jones, 1959, map 1059A.
78	50°13'00"	118°52'00"	CPTAc	undetermined	Crinoids	A.G. Jones, field notes and maps, 1946-51.
79	50°10'55"	118°38'30"				
80	50°11'30"	118°37'30"	CPTAc	undetermined (Late Palaeozoic?)	Crinoids, cup corals.	A.G. Jones, field notes and maps, 1946-5l.
81	50°11'25"	118°37'00"	CPTAc	undetermined	Undetermined fragments.	
82	50°07'15"	118°30'25"	CPTAc	Permian (?)	Brachiopod fragment (Lyttonia?). Position approximate.	Jones, 1959. pp. 46-47.
83	50°07'55"	118°26'35"	CPTAc	Late Palaeozoic	Brachiopod and coral fragments. Loc. F-6A.	Jones, 1959, p. 46.
84	50°07'30"	118°26'30"			Crinoids and indeterminate fragments.	
85	50°06'50"	118°26'30"			Brachiopod and other indeterminate fragments.	
86	50°03'05"	118°21'00"	uTR Sc	Triassic or (?) Permian	Neogondolella sp. indet. conodont. Sample 517CAa73-2F.	This report. Identified by B.E.B. Cameron.
87	50°04'45"	118°19'00"	CPTAc	Permian or (?) Triassic	Neogondolella sp. indet. conodont. Sample 514CAa73-2F	This report. Identified by B.E.B. Cameron.
88	49°59'42"	119°49'02"	CPTAcg	Permian (?)	Scanty collection of coral, bryozoan, crinoidal and Linoproductus fragments. Loc. F-5.	Jones, 1959, p. 46.
89	49°59'43"	119°48'40"	CPTAcg	undetermined	Undetermined fragments in limy conglomerate.	A.G. Jones, field notes and maps, 1946-51.
90	49°51'35"	119°38'55"	eTKs	undetermined	Fossils not described	Little, 1961.
91	49°53'17"	119°17'55"				

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