



Scale 1:250 000 - Échelle 1/250 000

Geological cartography by the Geological Survey of Canada

Any relations or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base map at the same scale published by the Surveys and Mapping Branch in 1970

Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, Ontario, K1A 0E9

Mean magnetic declination 1989, 20°39' East, decreasing 8.3' annually

Elevations in feet above mean sea level

Data compiled by J.W.H. Monger and S. Lear 1989

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Elevations in feet above mean sea level

MAP 41-1989 SHEET 3 ISOTOPIC DATE LOCATIONS HOPE BRITISH COLUMBIA

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Elevations in feet above mean sea level

The summary data below are presented generally in the same order as map units in the legend of the geological map, and are keyed to those units. In cases where the dates clearly differ from the age assigned to the map unit, this is because either the dated body is too small to show on the map (such as a dyke within a map unit), or else there are grounds for believing that there has been resetting of the isotopic system.

Each isotope date location map number consists of three parts: (1) (screened) map-unit letters; (2) (full tone) 30' by 15' map sheet number (N15 S20W 1 to 13); (3) (full tone) number within the unit within the 30' by 15' sheet. For example, locations of dates from, respectively, Jura-Cretaceous granodiorite and Eocene Princeton volcanics within map sheet S20W 1 are given by: Jkgd2-1, Jkgd2-2; and Epy2-1, Epy2-2.

In compiling this table, extensive use has been made of the University of British Columbia geochronometry file. GSC numbers, where published, are given by e.g. GSC 87-189, or where unpublished, by Lab number, e.g. 3950.

Map No.	Date (Ma)	System	Collector	Laboratory	Reference (where available)
Kgd,cd3-3	91.0 ± 2.8	KH	McLeod	UBC	McLeod et al. (1976); McLeod (1975)
Kgd,cd4-4	80.7 ± 4 / 86.6 ± 2.8	K / K	McLeod	UBC	McLeod et al. (1976)
Kgd,cd1-1	76 ± 4 / 76 ± 4	KB / KH	McTaggart and Wheeler, Harakal	GSC 72-6,7	Wanless et al. (1973)
Kgd,cd1-2	77 ± 4	KH	McTaggart and Wheeler, Harakal	UBC	McTaggart and Thompson (1987)
Kgd,cd11-3	77.3 ± 2.6	KH	Bartholomew	UBC	Bartholomew (1979, M.Sc. thesis)
Kgd,cd12-1	120.9 ± 2.7 / 77.65	KH / KB	Monger	GSC 3786/3951	
Kgd,cd12-2	79.79 ± 1.3	KB	Monger	GSC 3911	
Kgn12-1	96	U	Monger	GSC Ottawa	(Farrish)
Kgn12-2	105 / 79	U / Rb	Monger	UBC	Gabites (1985)
Kjkd12-1	ca.100	U	Monger	GSC	(Farrish)
Kjgs-1	24.5 ± 1	KS	Ray	UBC	(small intrusion)
Kjgd1-1	109 ± 1.7	KB	Monger	GSC 87-186	GSC Paper 87-02
Kjgd2-1	101 ± 6	KB		GSC	Wanless et al. (1967)
Kjgd2-2	115.1 ± 1.8	KB	Roddick	Queens	Roddick and Farrar (1972)
Kjgd1-4	107.2 ± 1.7	KH	Roddick	Queens	Roddick and Farrar (1972)
Kjgd2-7	113.6 ± 7.4	Rb	Grieg	UBC	Grieg (in prep.)
Kjgd10-1	191 ± 15	KB		GSC 62-55	Wanless et al. (1963)
Kjgd10-2	175.8 ± 2.6	KB		Queens	Roddick and Farrar (1971)
Kjgd10-3	109.5 ± 3.6	KB	Grieg	UBC	Grieg (in prep.); M.Sc. thesis, UBC
Kjgd10-4	22.2	KB	Grieg	UBC	Grieg (in prep.); M.Sc. thesis, UBC (dyke)
Kjgd10-5	122.8 ± 4.0	Rb	Grieg	UBC	Grieg (in prep.); M.Sc. thesis, UBC
Kjgd10-6	100.4 ± 1.2	KB		Queens	Roddick and Farrar (1972)
Kjgd10-7	148 ± 12	KB		GSC 62-56	Wanless et al. (1963)
Kjgd11-1	90.6 ± 3.5	KB	Grieg	UBC	Grieg (in prep.); M.Sc. thesis, UBC
Kjgd11-2	156 ± 4	U	Grieg	UBC	Grieg (in prep.); M.Sc. thesis, UBC
Kjgd11-3	135.1 ± 2.3 / 135.9 ± 3.5	U / U	Monger	UBC	van der Heyden
Kjgd11-4	120 ± 4	KH	Grieg	UBC	van der Heyden
Kjgd11-5	80.4 ± 3.1	KH	Grieg	UBC	van der Heyden
Kjgd11-6	107.4 ± 1.4	KB	Monger	UBC	GSC 3906
Kjgd11-7	137.5 ± 2.5	KB	Monger	UBC	GSC 3905
Kjgd7-1	73.7 ± 1.2	KH	Roddick	Queens	Roddick and Farrar (1972)
Kjgd7-2	87.6 ± 1.4 / 109.0 ± 1.7	KB / KB	Roddick	Queens	Roddick and Farrar (1972)
Kjgd7-3	105.8 ± 1.6	KB	Roddick	Queens	Roddick and Farrar (1972)
Kjgd7-4	104.7 ± 1.6	KB	Roddick	Queens	Roddick and Farrar (1972)
Kjgd11-1	150 ± 7	U			
Kjgd11-2	102 ± 2.1 / 104 ± 4	Rb / KH	Grieg	UBC	Grieg (in prep., M.Sc. thesis, UBC)
Kjgd11-3	102.8 ± 1.5	KH	Monger	UBC	GSC 3908
Kjgd11-4	135.9 ± 2.4	U	Monger	UBC	van der Heyden
Kjgd11-5	102.1 ± 6.6	Rb	Grieg	UBC	Grieg (in prep., M.Sc. thesis, UBC)
Jkgd5-1	159.6 ± 2.8	KB	Monger	GSC 3952	
Jkgd5-2	ca.160	KB	Garrett/Monger	GSC	
Jkgd1-1	164.5 ± 4.8	KB		Queens	Roddick et al. (1972)
Jkgd1-2	145.4 ± 4.4	KB		Queens	Roddick et al. (1972)
Jkgd1-3	144.9 ± 4.4	KB		Queens	Roddick et al. (1972)
Jkgd1-4	154.5 ± 4.6	KB		Queens	Roddick et al. (1972)
Jkgd1-5	162.5 ± 2.5 / 154.5 ± 2.5	U	Monger	GSC 3711/3722	(Farrish)
Jkgd1-6	153 ± 2.3	Rb		UBC	Peto and Armstrong (1976)
Jkgd1-7	154 ± 6	Rb	Peto	UBC	Peto and Armstrong (1976)
Jkgd8-1	186.1 ± 5.6	KH		Queens	Roddick et al. (1972)
Jkgd8-2	210.6 ± 1.6 / 206.3 ± 1.6	U	Monger	GSC 3714/3715	(Farrish)
Jkgd8-3	173.4 ± 4.7 / 185.7 ± 2.8	KB / KH		Queens	Roddick et al. (1972)
Jkgd8-4	180.9 ± 5.4 / 188.1 ± 5.8	KB / KH		Queens	Roddick et al. (1972)
Jkgd8-5	161.3 ± 3.4 / 162.8 ± 5.0	KB / KH		Queens	Roddick et al. (1972)
Jkgd8-6	195.0 ± 6.0	K, Amph		Queens	Roddick et al. (1972)
Jkgd8-7	158 ± 4.8	KB		Queens	Roddick et al. (1972)
Jkgd8-8	158 ± 4.8	KB		Queens	Roddick et al. (1972)
Jkgd8-9	159.9 ± 2.9 / 153.4 ± 4.6	KH / KB		Queens	Roddick et al. (1972)
Jkgd8-10	154 ± 4.6	KB		Queens	Roddick et al. (1972)
Jkgd8-11	167.8 ± 5.8	KB		Queens	Roddick et al. (1972)
Jkgd8-12	160.8 ± 4.8	KB		Queens	Roddick et al. (1972)
Jkgd10-1	204 ± 5	KB		UBC	Peto et al. (1979)
Jkgd10-2	234 ± 9	KB		UBC	Peto et al. (1979) (suspect)
Jkgd10-3	267 ± 5	KB		UBC	Peto et al. (1979) (suspect)
Jkgd10-4	194 ± 3	Rb	McMillan/Armstrong	UBC	McMillan (BCHMFR)
Jkgd10-5	215 ± 4	KB		UBC	Peto et al. (1979)
Jkgd10-6	200 ± 3	U	Monger	GSC	(Farrish)
Jkgd10-7	143 ± 6	KB	Harakal	UBC	W.M. Oriol (1972, M.Sc. thesis, UBC)
Jkgd10-8	138 ± 6	KB	Harakal	UBC	Oriol (1972, M.Sc. thesis, UBC)
Jkgd10-9	156 ± 4	KB	Harakal	UBC	Oriol (1972, M.Sc. thesis, UBC)
Jkgd10-10	134 ± 6	KB	Harakal	UBC	Oriol (1972, M.Sc. thesis, UBC)
Jkgd10-11	177 ± 7 / 180 ± 7	KB / KH	Harakal	UBC	Oriol (1972); Christopher (1973)
Jkgd10-12	147 ± 6 / 181 ± 7	KB / KH	Harakal	UBC	Oriol (1972, M.Sc. thesis, UBC)
Jkgd10-13	147 ± 5 / 181 ± 8	KB / KH	Harakal	UBC	Oriol (1972, M.Sc. thesis, UBC)
Jkgd10-14	151 ± 5 / 177 ± 5	KH	White / Harakal	UBC	White et al. (1983); Oriol (1972)
Jkgd10-15	134 ± 5	KH		UBC	Sorensen and Whitford (1976)
Jkgd10-16	129 ± 5	KH	Harakal	UBC	Oriol (1972, M.Sc. thesis, UBC)
Jkgd10-17	150 ± 6 / 175 ± 4	KB / KH	White	UBC	White et al. (1968); Oriol (1972)
Jkgd7-1	199 ± 8	KB	Peto	UBC	Peto et al. (1971); Peto (1972)
Jkgd7-2	203 ± 8	KB	Peto	UBC	Peto et al. (1971); Peto (1972)
Jkgd7-3	197 ± 8	KB	Peto	UBC	Peto et al. (1971); Peto (1972)
Jkgd7-4	200 ± 8	KB	Peto	UBC	Peto et al. (1971); Peto (1972)
Jkgd7-5	197 ± 8	KB	Peto	UBC	Peto et al. (1971); Peto (1972)
Jkgd7-6	153 ± 6 / 151 ± 9	KB / Kcp		UBC	Sinclair and White (1968)
Jkgd7-7	197 ± 8	KB		UBC	Sinclair and White (1968)
Jkgd7-8	204 ± 7	KB		UBC	Sinclair and White (1968)
Jkgd7-9	185 ± 8	KB		UBC	Sinclair and White (1968)
Jkgd7-10	193 ± 7	KB		UBC	Peto et al. (1971); Peto (1972)
Jkgd7-11	197 ± 7	KB		UBC	Peto et al. (1971); Peto (1972)
Jkgd7-12	130.6 ± 2.0	KB		Queens	Roddick and Farrar (1971)
Jkgd7-13	204 ± 1.5	KH		Queens	Roddick and Farrar (1971)
Jkgd7-14	293 ± 23	KH		Queens	GSC 62-57
Jkgd7-15	196.7 ± 1.7	KH		Queens	Roddick and Farrar (1971)
Kjgs1-1	100.6 ± 1.5	KB	Monger	GSC 87-190	GSC Paper 87-02
Kjgs1-2	102 ± 4	KB	Peto	UBC	Peto et al. (1971); Peto (1972)
Kjgs1-3	100 ± 4	KB	Peto	UBC	Peto et al. (1971); Peto (1972)
Kjgs1-4	101 ± 2.6 / 99.2 ± 2.6	KB / KH	Peto	UBC	Peto et al. (1971); Peto (1972)
Kjgs1-5	99.1 ± 2.1	KB	Peto	UBC	Peto et al. (1971); Peto (1972)
Kjgs10-1	207 ± 5	KH	Peto	UBC	Peto et al. (1979) (boulder in basal)
Kjgs10-2	104 ± 22	Rb	Peto	UBC	Peto et al. (1979) KSB cgl)
Kjgs11-1	84.79 ± 1.3	KH	Monger	GSC 3908	(dyke)
Kjgs11-2	85.65 ± 3.2	KH	Monger	GSC 3907	(dyke)
Kjgs15-1	105 ± 3	KB	Richards	UBC	Richards and White (1970); Richards (1971)
Kjgs15-2	110 ± 3 / 91.3 ± 2.2	U-Pb / Rb	Armstrong	UBC	Richards and McTaggart (1976)
Kjgs15-3	91.0 ± 2.8	KH	McLeod	UBC	McLeod et al. (1976)
Kjgs15-4	91.2 ± 3.1	KH	McLeod	UBC	McLeod et al. (1976)
Kjgs15-5	95.4 ± 4 / 105 ± 4	KH / KH	McLeod	UBC	McLeod et al. (1976); McLeod (1975)
Kjgs15-6	112 ± 4 / 121.6 ± 4	KH / KH + Px		UBC	
Kjgs15-7	91.0 ± 2.8	KH	Richards	UBC	Richards and McTaggart (1976)
Kjgs15-8	80 ± 4 / 82 ± 4	KB / KH	Richards	UBC	Richards and White (1970); Richards (1971)
Kjgs15-9	102.7 ± 3.4	KH	Monger	GSC	
Kjgs15-10	110 ± 5	U	Gabites	UBC	Gabites (1985)
Kjgs15-11	91.05 ± 5	U	Gabites	UBC	Gabites (1985)
Kjgs15-12	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-13	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-14	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-15	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-16	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-17	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-18	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-19	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-20	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-21	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-22	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-23	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-24	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-25	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-26	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-27	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-28	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-29	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-30	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-31	100 ± 1	U	Richards and McTaggart (1976)	UBC	
Kjgs15-32	1				