

Suite	Unit	Terrane	Age (Ma)	Error (Ma)	Ref.
Stikine Plutonic; Nicola Volcanic; Stuhini Volcanic	Clark Creek metatonalite	Quesnel	230.2	± 0.8	1
	Clark Creek metatonalite	Quesnel	228	± 16	1
	Nicola Group at Iron Mountain	Quesnel	224.6	± 0.9	2
	Nicola Group at Castillion Creek	Quesnel	224.52	± 0.22	3
	Nicola Group at Castillion Creek	Quesnel	224.5	± 0.3	2
	Nicola Group at Iron Mountain	Quesnel	223.81	± 0.78	3
	Nicola Group tuff	Quesnel	222.5	± 1.4	4
	Yehinko pluton	Stikine	222.1	± 9.6	5
	Hotailuh batholith	Stikine	221	± 3	6
	Hickman pluton	Stikine	221	± 8	7
	Bob Lake metadiorite	Quesnel	219.2	± 2.6	1
	Fin monzogranite	Stikine	217.8	± 0.6	8
	Hickman dykes	Stikine	216.6	± 2	9
	Hotailuh batholith	Stikine	216.5	± 1.4	10
	Hotailuh batholith	Stikine	216.2	± 1.2	10
	Josh Creek diorite	Quesnel	215.9	± 1.4	11
Guichon-Galore	West Kettle batholith	Quesnel	213.5	± 0.9	12
	Zippa Mtn syenite complex	Stikine	211	+ 7/- 5	13
	Jack Lee pluton	Stikine	210.3	± 3.5	14
	Galore Creek dykes	Stikine	210.2	± 1.0	15
	Topley granodiorite	Stikine	210	± 2	16
	Guichon Creek batholith	Quesnel	210	± 0.3	17

Copper Mountain; Hazelton Volcanic	Mab metadiorite	Quesnel	209	± 2	4
	Galore Creek dykes	Stikine	208.8	± 0.8	18
	Mount Attree dyke	Stikine	208.6	± 0.7	19
	Hefley Creek pluton*	Quesnel	208.1	± 6.1	20
	Takla Group andesite	Stikine	208	± 2	16
	Griffith Creek volcanics*	Stikine	205.8	± 0.9	21
	Groat Stock	Stikine	205.1	± 0.8	22
	Mt Polley intrusive complex*	Quesnel	205.0	± 0.3	23
	Iron Mask batholith*	Quesnel	204.7	± 3	15
	Iron Mask batholith*	Quesnel	204.6	± 2.6	15
	Iron Mask batholith*	Quesnel	204.5	± 0.6	15
	Mt Pardek volcanics*	Stikine	204.3	± 0.5	19
	Tas monzodiorite	Stikine	204.2	± 9	24
	Zippa Mtn pluton	Stikine	204	± 1	13
	Copper Mtn stock*	Quesnel	204	± 6	15
	Allison Lake diorite*	Quesnel	204	± 10	25
	Red stock*	Stikine	203.8	± 1.3	22
	Mt Polley intrusive complex	Quesnel	203.1	± 1.6	21
	Bootjack stock*	Quesnel	203.1	± 2.0	26
	Nicola Group trachyandesite*	Quesnel	203	± 4	27
	Copper Mtn stock	Quesnel	202.7	+ 4.4/- 0.5	15
	Takomkane batholith	Quesnel	202.5	± 0.5	28
	Red Mountain	Stikine	201.8	± 0.5	29
	Mt Polley intrusive complex	Quesnel	201.7	± 0.4	15

Telkwa Formation volcanics	Stikine	201.6	± 0.4	19
New Afton dyke	Quesnel	201.39	± 0.75	18
Allison Lake diorite	Quesnel	201.3	± 0.8	30
North Thuya granodiorite	Quesnel	201.3	± 2.3	31
Jenson pluton	Stikine	201.2	± 2.6	32
Hazelton Group tuff	Stikine	200.9	± 0.4	8
Hazelton Group dacite	Stikine	200.8	± 2.6	14
Hazelton Group tuff	Stikine	200.4	± 0.3	32
Copper Mtn stock	Quesnel	200.3	± 2.1	15
Sugarloaf diorite	Quesnel	200.1	± 2.5	23
Maple Leaf pluton	Stikine	199.6	± 0.6	32

Supplementary Table 1. Location, isotopic ages and errors of igneous rock units in the Canadian Cordillera that were formed between 237 Ma (the Middle-Upper Triassic boundary) and 200 Ma and may have been sources for the detrital zircon recovered from the section at Black Bear Ridge. The locations of those units marked with an asterisk are shown in Figure 7. References are as follows: 1 = Erdmer et al. (2002); 2 = Diakow et al. (2011); 3 = Diakow and Barrios (2008); 4 = Moore et al. (2000); 5 = Scott et al. (2008); 6 = Anderson and Bevier (1992); 7 = Holbek (1988); 8 = Dickinson (2006); 9 = Logan et al. (2000); 10 = van Straaten et al. (2012); 11 = Acton et al. (2002); 12 = Massey et al. (2010); 13 = Bevier and Anderson (1991); 14 = Diakow et al. (2006); 15 = Mortensen et al. (1995); 16 = MacIntyre et al. (2001); 17 = Mortimer et al. (1990); 18 = Logan and Mihalynuk (2014); 19 = Barresi et al. (2015); 20 = Friedman et al. (2002); 21 = Thorkelson et al. (1995); 22 = Friedman and Ash (1997); 23 = Logan et al. (2007); 24 = Nelson and Bellefontaine (1996); 25 = Preto et al. (1979); 26 = Bailey and Archibald (1990); 27 = Whiteaker et al. (1998); 28 = Schiarizza and Macauley (2007); 29 = Greig et al. (1995); 30 = Breitsprecher et al. (2008); 31 = Schiarizza and Bolton (2006); 32 = Diakow (2001).

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