

Electronic Appendix 3. Caledonian U–Pb magmatic ages, Svalbard and East Greenland.

Age	Rock type	Geological unit and/or geographical location		Ref.
409 \pm 4/-8	Granite	Intrudes Smallefjord sequence	Grandjean Fjord-Bessel Fjord (EGR)	12
412.5 \pm 0.5	Granite	Rijpfjorden granite	Nordautlandet terrane (SVA)	2
417 \pm 18/-7	Granitoid	Djupkilsodden pluton	Nordautlandet terrane (SVA)	3
413 \pm 3	Granite	Intrudes Eleonore Bay Supergroup	Payer Land (EGR)	5
413 \pm 3	Granite		Payer Land (EGR)	5
418 \pm 5/-18	Monzonite	Bregnepynt Monzonite	Scoresby Sund (EGR)	18
418.4 \pm 0.8	Granitoid	Hornemanntoppen granitoid	North-Western terrane (SVA)	4
c. 420	Granite	Wisnesbreen granite	Nordautlandet terrane (SVA)	2
417 \pm 3	Granite		Renland (EGR)	8
422.2 \pm 0.6	Diorite	Bjørnøer Diorite	Scoresby Sund (EGR)	16
422.0 \pm 1.2	Granite		Bartholin Nunatak (EGR)	9
423 \pm 1.5	Granitoid	Bjørnfjorden	North-Western terrane (SVA)	4
423 \pm 2	Monzonite	Renland Monzonite	Scoresby Sund (EGR)	16
423.5 \pm 0.7	Monzonite	Bregnepynt Monzonite	Scoresby Sund (EGR)	16
424 \pm 1	Granite	Intrudes Eleonore Bay Supergroup	Forsblad Fjord (EGR)	10
423 \pm 4.5	Granodiorite	Nordvestfjord Granodiorite	Scoresby Sund (EGR)	16
424.6 \pm 0.5	Leucogranite	Tindern allochthon	Forsblad Fjord (EGR)	13
423.8 \pm 1.5	Granite	Caledonia Ø Granite	Forsblad Fjord (EGR)	13
c. 426	Granite		Alpefjord (EGR)	10
425.8 \pm 2	Granitic mylonite		Fjord Region Detachment Zone (EGR)	15
426.6 \pm 1.4	Granite		Intrudes Moskusoksefjord Inlier (EGR)	9
426 \pm 3	Granite		Payer Land (EGR)	5
428.2 \pm 1.0	Leucogranite	Intrudes Smallefjord Sequence	Slamsø (EGR)	14
428 \pm 1.8	Granite	Intrudes Smallefjord Sequence	Langsø (EGR)	14
424 \pm 6	Monzonite		Renland (EGR)	8
429 \pm 1	Granite	Intrudes Eleonore Bay Supergroup	Bredefjord Granite (EGR)	14
430 \pm 0.7	Granitoid	Newtontoppen Granitoid	North-Western terrane (SVA)	4
432 \pm 9/-14	Granite	Intrudes Eleonore Bay Supergroup	Grandjean Fjord-Bessel Fjord (EGR)	12
424 \pm 8	Monzonite		Renland (EGR)	8
426 \pm 6	Monzonite	Øfjord Monzonite	Scoresby Sund (EGR)	17
427 \pm 6.3	Granite	Intrudes Eleonore Bay Supergroup	Kap Klinkerfues Granite (EGR)	14
431.3 \pm 2.8	Granite	Intrudes Eleonore Bay Supergroup	Knæksø Granite (EGR)	14
430 \pm 6.5	Granitic veins	Junctiondal	Fjord Region Detachment Zone (EGR)	15
431 \pm 7	Aplite dyke	Kvitøya	Nordautlandet terrane (SVA)	1
434 \pm 5	Granite dyke		Renland (EGR)	8
432 \pm 8	Granite	Intrudes Krummedal sequence	Fränkel Land (EGR)	7
433 \pm 8	Granite	Intrudes Nathorst Land Group	Stauning Alper/Nathorst Land (EGR)	6
434 \pm 8	Syenite	Nordmarka syenite	Nordautlandet terrane (SVA)	1
432 \pm 10	Monzonite	Bregnepynt Monzonite	Scoresby Sund (EGR)	11
440 \pm 3	Granite	Nordkapp granite	Nordautlandet terrane (SVA)	2
438 \pm 5	Gabbro	Intrudes Krummedal sequence	Fränkel Land (EGR)	7
436 \pm 8	Granite	Intrudes Krummedal sequence	Fränkel Land (EGR)	7
434 \pm 11	Pegmatitic granite		Payer Land (EGR)	5
440 \pm 8	Tonalite	Intrudes Krummedal sequence	Fränkel Land (EGR)	7

Age	Rock type	Geological unit and/or geographical location		Ref.
437 ± 12	Granite	Foynøane grey granite	Nordautlandet terrane (SVA)	1
438 ± 14	Granite	Intrudes Krummedal sequence	Fränkel Land (EGR)	7
450 ± 1	Quartz diorite	Danmark Ø Quartz diorite	Scoresby Sund (EGR)	16
454 ± 1	Granodiorite	Korridoren Granodiorite	Scoresby Sund (EGR)	16
466 ± 9	Granodiorite	Korridoren Granodiorite	Scoresby Sund (EGR)	11

Abbreviations: EGR=East Greenland Caledonides; SVA=Svalbard Caledonides.

References: (1) Johansson *et al.* (2004), (2) Johansson *et al.* (2002), (3) Gee *et al.* (1999), (4) Myhre (2005), (5) Gilotti & McClelland (2005), (6) Watt *et al.* (2000), (7) Kalsbeek *et al.* (2001), (8) Leslie & Nutman (2003), (9) Hartz *et al.* (2001), (10) Andresen *et al.* (1998), (11) Kalsbeek *et al.* (in press), (12) Hansen *et al.* (1994), (13) White *et al.* (2002), (14) Strachan *et al.* (2001), (15) Hartz *et al.* (2000), (16) Rehnström (2010), (17) Leslie & Nutman (2000), (18) Hansen & Friderichsen (1987).