

Electronic Appendix 2. Caledonian U–Pb magmatic ages, Norwegian Caledonides.

Age (Ma)	Rock type	Geological unit and/or geographical location		Ref.
426 +8/-2	Syenite	Fongen-Hyllingen Complex	Central Norway	1
427 ± 1	Granite dykes	Jotun Nappe Complex	South-west Norway	30
429 ± 2	Tonalite	Bindal batholith	North-central Norway	2
430 ± 2	Granodiorite	Bindal batholith	North-central Norway	2
431 ± 2	Granite dyke	Hellefjord formation	North	3
430 ± 4	Granite dyke	Skjøtingen nappe	Central Norway	4
433.8 ± 0.8	Trondhjemite	Innerdalen	South-central Norway	5
431 ± 4	Trondhjemite	Olaberget Complex	South-central Norway	6
432 ± 3	Trondhjemite	Follestad	Central Norway	7
434.8 ± 0.5	Trondhjemite	Innset massif	South-central Norway	5
432 ± 4	Trondhjemite	Toset Complex	South-central Norway	6
435.6 ± 0.6	Granite	Skarsvåg granite	North Norway	8
437 +1/-2	Gabbro	Råna intrusion	North Norway	9
435.8 ± 0.9	Trondhjemite	Innset massif	South-central Norway	5
430 ± 7	Monzodiorite	Tosbotn	North-central Norway	10
435.1 ± 2.5	Trondhjemite	Vålåsø Complex	South-central Norway	6
435.6 ± 2.3	Trondhjemite	Vålåsø Complex	South-central Norway	6
436 ± 2	Tonalite dyke	Skjøtingen nappe	Central Norway	4
437 ± 1	Tonalite dyke	Narvik Nappe Complex	North Norway	11
437 ± 1	Granite dyke	Narvik Nappe Complex	North Norway	11
437.7 ± 0.8	Trondhjemite	Gia Complex	South-central Norway	6
438.2 ± 0.7	Gabbro	Honningsvåg Igneous Complex	North	8
437.6 ± 1.3	Diorite	Reitstøa Complex	Central Norway	6
437 ± 2	Gabbro	Sulitjelma Gabbro	North Norway	12
438.4 ± 0.9	Granite	Juldagnes granite	North	8
437.7 ± 1.6	Granite	Finnvik granite	North	8
437.8 ± 2.3	Monzonite	Fongen-Hyllingen Complex	Central Norway	6
438.7 ± 1.5	Diorite	Gia Complex	South-central Norway	6
438 ± 3	Granite	Bakfjord granite	North	13
437 ± 4	Granodiorite	'Gåsvassfjellet' pluton	Central Norway	10
438 ± 4	Volcaniclastic	Hellefjord formation	North	13
438 ± 4.5	Monzonite	Gjæsingen Quartz Monzonite	Central Norway	14
437.5 ± 5.1	Plagiogranite	Halti Igneous Complex	North Norway	15
438 ± 5	Granite	Bakfjord granite	North	13
438 ± 5	Granite	Engesfjellet granite	North	13
440 ± 3	Diorite	Hitra diorite	Central Norway	14
441 ± 3	Granitic gneiss	Uthaug gneiss	Central Norway	14
441.2 ± 2.9	Granite	Lerberen granite	Central Norway	14
442 ± 3	Diorite	Hitra diorite	Central Norway	16
445	Diorite	Velfjord	North-central Norway	17
440 ± 5	Tonalite	Bremanger tonalite	North-west Norway	18
435 ± 10	Monzonite	Kalvvatnet monzonite	Central Norway	10
443 ± 2.5	Granite	Hitra granite	Central Norway	14
443 ± 3	Diorite	Solund-Stavfjord ophiolite	North-west Norway	19
437.9 ± 8.1	Plagiogranite	Halti Igneous Complex	North Norway	15
444.7 ± 1.4	Hornblende diorite	Hitra diorite	Central Norway	14
443 ± 4	Gabbro	Gåsøy Intrusion	North-west Norway	18b
444 ± 3	Diorite	Simadalen diorite	Central Norway	14
c. 447	Diorite	Velfjord	North-central Norway	17
445 ± 2	Plagiogranite	Halti Igneous Complex	North Norway	15
c. 448	Diorite	Velfjord	North-central Norway	17
450 +4/-3	Granite dyke	Hitra	Central Norway	16
446 ± 3	Diorite	Fillan diorite porphyry	Central Norway	14
447 ± 2	Diorite	Hilstadfjellet	North-central Norway	20
445.7 ± 3.8	Granodiorite	Smøla granodiorite	Central Norway	14
443 ± 7	Tonalite	Kråkfjellet pluton	North-central Norway	10
448 ± 2	Diorite	Akset-Drevli	North-central Norway	20

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447.1 ± 3.7	Granite	Velfjord	North-central Norway	17
447 ± 5	Diorite	Sausfjellet	North-central Norway	20
447 ± 7	Porphyritic granite	Andalshatten pluton	North-central Norway	10
444 ± 11	Granite	Heilhornet Pluton	North-central Norway	21
456 ± 2	Quartz monzodiorite	Møklevatnet Complex	Central Norway	22
456 ± 4	Anorthosite dyke	Skattøra migmatite complex	North Norway	23
458 ± 3	Gabbro	Grøndalsfjell Layered Series	Central Norway	22
460.7 ± 2.3	Diorite gneiss	Kjørsvika diorite gneiss	Central Norway	14
460 ± 3	Tonalite gneiss	Follafooss tonalite gneiss	Central Norway	14
455.7 ± 8.4	Syenite	Hortavær igneous complex	North-central Norway	24
470 +9/-5	Cpx gabbro	Karmøy ophiolite	West Norway	19
468.9 ± 3.2	Granite	Vega pluton	North-central Norway	17
474 +3/-2	Granite-pegmatite	West Karmøy Igneous Complex	West Norway	25
472 ± 2	Gabbro	Vardafjell gabbro	West Norway	25
470.4 ± 3.6	Granite	Velfjord	North-central Norway	17
469 ± 5	Tonalite dyke	Lyngen Magmatic Complex	North Norway	26
473 ± 2	Andesite	Siggjo complex	West Norway	25
476.6 ± 2.1	Diorite	Kopparen diorite	Central Norway	14
477 ± 3	Granite	Vega pluton	North-central Norway	17
476 ± 4	Rhyolite	Katnakken volcanics	West Norway	25
479 ± 1	Tonalite gneiss	Ofoten Nappe Complex	North Norway	11
482 +6/-4	Tonalite	Gullfjellet ophiolite	West Norway	19
c. 481	Trondhjemite	Bymarka ophiolite	Central Norway	27
483 +5/-3	Tonalite	Bjørkvatnet	Central Norway	28
481.9 ± 1.5	Felsic gneiss	Lensvik gneiss	Central Norway	14
479 ± 5	Quartz-diorite	West Karmøy Igneous Complex	West Norway	25
477 ± 9.3	Granite	Velfjord	North-central Norway	17
485 ± 2	Trondhjemite	Karmøy ophiolite	West Norway	19
482 ± 5	Rhyodacite	Bymarka ophiolite	Central Norway	27
493 +7/-4	Plagiogranite	Karmøy ophiolite	West Norway	19
489 ± 3	Plagiogranite	Gullfjellet ophiolite	West Norway	19
494 ± 2	Basalt	Geitung unit	West Norway	25
495 ± 3	Trondhjemite sheet	Ytterøya ophiolite	Central Norway	29
497 ± 2	Trondhjemite	Leka ophiolite	Central Norway	19

References: (1) Wilson *et al.* (1983), (2) Nissen *et al.* (2006), (3) Kirkland *et al.* (2006), (4) Nordgulen *et al.* (2002), (5) Nilsen *et al.* (2003), (6) Nilsen *et al.* (2007) (7), Dunning & Grenne (2000), (8) Corfu *et al.* (2006), (9) Tucker *et al.* (1990), (10) Nordgulen *et al.* (1993), (11) Northrup (1997), (12) Pedersen *et al.* (1991), (13) Kirkland *et al.* (2005), (14) Tucker *et al.* (2004), (15) Andréasson *et al.* (2003), (16) Tucker (1988), (17) Yoshinobu *et al.* (2002), (18) Hansen *et al.* (2002), (18b) R.B. Pedersen, unpub. data in (18), (19) Dunning & Pedersen (1988), (20) Pedersen *et al.* (1999), (21) Nordgulen & Schouenborg (1990), (22) Meyer *et al.* (2003), (23) Selbekk *et al.* (2000), (24) Barnes *et al.* (2003), (25) Pedersen & Dunning (1997), (26) Oliver & Krogh (1995), (27) Roberts *et al.* (2002), (28) Stephens *et al.* (1993), (29) Roberts & Tucker (1998), (30) Lundmark & Corfu (2007).