

Electronic Appendix 5. Caledonian U–Pb magmatic ages, Newfoundland.

Age (Ma),	Rock type	Geological unit and/or geographical location		Ref.
374 ± 2	Granite	St. Lawrence Granite	Avalon Zone	37
378 ± 2	Granite	Francois Granite	Gander Zone	37
384 ± 2	Granite	Strawberry Granite	Dunnage Zone	29
386 ± 3	Granite	Isle aux Morts Granite	Dunnage Zone	29
390 ± 3	Granite	Chetwynd Granite	Dunnage Zone	20
396 +6/-3	Granite	North Bay Granite Suite	Dunnage Zone	33
408 ± 2	Granodiorite	Loon Bay granodiorite	Dunnage zone	1
408 ± 2	Granodiorite	Loon Bay Batholith	Dunnage Zone	35
410 ± 2	Granite	Middle Ridge granite	Gander zone	13b
420 +8/-2	Tuff	Georges Brook Formation, La Poile Group	Dunnage Zone	22
420 +8/-2	Tuff	Georges Brook Formation, La Poile Group	Dunnage Zone	33
418 +2/-1.5	Porphyry	Hawks Nest Pond Porphyry	Dunnage Zone	20
415 ± 2	Syenite	Skull Hill syenite	Dunnage zone	15
415 ± 2	Granite		Gander zone	18
415 ± 2	Granite	Burgeo Intrusive Suite	Dunnage Zone	33
c. 418	Granite	Locker's Bay granite	Gander zone	21
417 ± 2	Granite	Cape Freels granite	Gander zone	13b
418 ± 2	Granite	Rose Blanche granite	Gander zone	12
419 ± 2	Granite	Otter Point granite	Gander zone	20
423 +3/-2	Tuff	Stony Lake Volcanics	Dunnage Zone	33
423 +3/-2	Rhyolite	Phillips Brook Rhyolite	Dunnage Zone	20
424 +7/-3	Rhyolite	Georges Brook Formation, La Poile Group	Dunnage Zone	33
424 +4/-3	Gabbro sill	unnamed, intrudes Windsor Point Group	Dunnage Zone	29
421 ± 2	Granite	Gaultois granite	Gander zone	18
421 ± 2	Granite	Gaultois Granite	Gander Zone	33
c. 424	Gabbro	Mount Peyton intrusive suite	Dunnage zone	19
422 ± 2	Granite	Port Albert Peninsula dyke	Dunnage Zone	35
423 ± 2	Granite	Wild Cove Pond intrusive suite	Humber zone	14
424 ± 2	Granite	Windowglass Hill Granite	Dunnage Zone	29
429 +7/-3	Rhyolite	Bear Pond Rhyolite	Dunnage Zone	33
429 +5/-3	Granite	Burgeo intrusive suite	Gander zone	18
429 +5/-3	Granodiorite	Burgeo Intrusive Suite	Dunnage Zone	33
429 +6/-5	Rhyolite	Springdale Group	Dunnage Zone	24
427 ± 2	Granite	Wild Cove Pond intrusive suite	Humber zone	14
427 ± 3	Granodiorite, syenite, granite	Topsails intrusive suite	Dunnage zone	3
429 ± 2	Granodiorite	Western Head Granite	Gander Zone	20
429 ± 2	Tuff	Grand Bruit Gull Pond tuff, La Poile Group	Gander Zone	20
429 ± 3	Granite	Dunamagon granite	Humber zone	14
429 ± 3	Granodiorite, syenite, granite	Topsails intrusive suite	Dunnage zone	3
429 ± 4	Felsic volcanics	Springdale Group	Dunnage zone 16	
431 ± 2	Gabbro, diorite	Main Gut intrusion	Dunnage zone	18
435 +6/-3	Gabbro, diorite	Boogie Lake intrusion	Dunnage zone	18
431 ± 2	Gabbro	Main Gut intrusion	Dunnage Zone	33
435 +6/-3	Monzonite	Boogie Lake complex	Dunnage Zone	33
432 ± 2	Granodiorite	Burlington granodiorite	Dunnage zone	14
432 ± 2	Granite	Coney Head Complex	Dunnage Zone	30
440 ± 2	Granodiorite	Glover Island Granodiorite	Dunnage Zone	23
438 ± 8	Gabbro, diorite	Rainy Lake complex	Dunnage zone	3
452 +28/-11	Tuff	Georges Brook Formation, La Poile Group	Dunnage Zone	25

Age (Ma),	Rock type	Geological unit and/or geographical location		Ref.
435 ± 15	Syenite	Seal Island Bight syenite	Dunnage zone	17
453 +5/-4	Rhyolite	Windsor Point Group	Dunnage Zone	29
453 ± 3	Granite	Port-aux-Basques granite	Dunnage Zone	12
457.0 ± 3.7	Tuff	Healy Bay Formation	Dunnage Zone	43
458 +29/-22	Tuff	Dolman Cove formation, Bay du Nord Group	Dunnage Zone	25
459 +24/-16	Granite	Dunamagon Granite	Dunnage/Humber Zones	27
456 ± 3	Tonalite, granodiorite	Burgeo Road	Dunnage zone	4
456 ± 3	Tonalite	Southwest Brook tonalite	Dunnage Zone	22
456 ± 3	Tonalite	Southwest Brook tonalite	Dunnage Zone	34
462 ± 1.3	Tuff	Healy Bay Formation	Dunnage Zone	43
462 +4/-2	Rhyolite	Victoria Lake Group	Dunnage Zone	32
463 ± 3	Felsic tuff	Healy Bay Formation	Dunnage Zone	43
464 +4/-3	Pegmatitic granite	Through Hill granite	Dunnage zone	9, 10
464 +4/-3	Granite	Through Hill Granite	Gander Zone	10
463.7 ± 2	Gabbro sill	Thwart Island gabbro	Dunnage Zone	20
464 ± 2	Granite	Great Burnt Lake granite	Dunnage zone	9, 10
464 ± 2	Granite	Great Burnt Lake Granite	Gander Zone	10
464.8 ± 3.5	Trondhjemite	Skidder Formation	Dunnage Zone	43
465 ± 2	Tuff	Healy Bay Formation	Dunnage Zone	43
c. 467	Granite	Coaker porphyry	Dunnage zone	1b
469 +5/-3	Rhyolite	Cutwell Group	Dunnage zone	22
466 ± 3	Tuff	Bay du Nord Group	Dunnage Zone	33
460 ± 10	Granodiorite	Hinds Lake granodiorite	Dunnage zone	3
468 ± 2	Tuff	Twillick Brook Member, Baie d'Espoir Group	Dunnage Zone	10
460 ± 10	Charnockite	Cormacks Lake complex	Humber Zone	26
469 ± 2	Tonalite	Cape Ray Igneous Complex	Dunnage Zone	29
473 +3/-2	Rhyolite	Buchans Group	Dunnage zone	22
473 +3/-2	Rhyolite	Buchans Group	Dunnage Zone	32
472 +2/-9	Gabbro sill	Wild Bight Group	Dunnage Zone, Exploits Subzone	38
474 +6/-3	Granite	Partridgeberry Hills Granite	Dunnage Zone	10
474 +6/-4	Granite	Partridgeberry Hills granite	Dunnage zone	9
471 ± 2	Tuff	Pig Island tuff, Wild Bight Broup	Dunnage Zone, Exploits Subzone	38
472 ± 2	Tonalite	Cape Ray area	Dunnage zone	5, 6
467 ± 8	Gabbro, diorite, tonalite	Hungry Mountain complex	Dunnage zone	3
c. 475	Trondhjemite	Costigan Lake pluton	Dunnage zone	13
473 ± 2	Rhyolite	Roberts Arm Group	Dunnage Zone	22
473 ± 2	Rhyolite	Roberts Arm Group	Dunnage Zone	32
473.0 ± 3.7	Leucogabbro	Lloyds River Complex	Dunnage zone	43
473 ± 1	Felsic tuff	Mink Lake Formation	Dunnage Zone	43
471 ± 4	Gabbro sill	Wild Bight Group	Dunnage Zone, Exploits Subzone	38
472 ± 3	Tuff	Locks Harbour tuff, Wild Bight Group	Dunnage Zone, Exploits Subzone	38
472 ± 3	Tuff	Duck Island tuff, Wild Bight Group	Dunnage Zone, Exploits Subzone	38
474 ± 2	Diorite, tonalite, granite	Coney Head allochthon	West coast allochthons	8
474 ± 2	Tonalite	Coney Head Complex	Dunnage Zone	30
472 ± 4	Granite	Woodford's Arm pluton	Dunnage Zone	36
477.5 +2.6/-2	Trondhjemite	Annieopsquotch Complex	Dunnage Zone	31
480 +4/-3	Tuff	Catcher's Pond Group	Dunnage Zone	41
477.6 ± 1.8	Granite	Baggs Hill Granite	Dunnage Zone	42
478 ± 2	Granite	Baggs Hill granite	Dunnage zone	11

Age (Ma),	Rock type	Geological unit and/or geographical location		Ref.
483 \pm 3/-2	Gabbro sill	Stog'er Tight Gabbro	Humber Zone	40
479 \pm 3	Quartz-feldspar granitoid	Mansfield Cove pluton	Dunnage zone	2
479 \pm 3	Plagiogranite	Mansfield Cove Complex	Dunnage Zone	32
485.7 \pm 1.9/- 1.2	Trondhjemite	Bay of Islands Complex	Humber Zone	31
484 \pm 2	Tuff	Fortune Harbour Formation, Cottrells Cove Group	Dunnage Zone	28
484 \pm 5	Plagioclase-rich granitoid	Bay of Islands complex	West coast allochthons	7
486 \pm 3	Tonalite	South Lake Igneous Complex	Dunnage Zone, Exploits Subzone	39
486 \pm 3	Tuff	Tea Arm Formation, Exploits Group	Dunnage Zone	20
488 \pm 2	Granodiorite	Cape Ray area	Dunnage zone	5, 6
505 \pm 3/-2	Gabbro, amphibolite, trondhjemite	Little Port complex	West coast allochthons	7
507 \pm 3/-2	Quartz-plagioclase granitoid	Twillingate pluton	Dunnage zone	1
430–425	Volcanics	Cape St. John Group	Dunnage zone	14, 17

References: (1) Elliot *et al.* (1991), (1b) Dunning in (1), (2) Dunning *et al.* (1987), (3) Whalen *et al.* (1987), (4) Dunning *et al.* (1989), (5) Dubé *et al.* (1994), (6) Dubé *et al.* (1993), (7) Jenner *et al.* (1991), (8) Dunning (1987a), (9) Colman-Sadd (1985), (10) Colman-Sadd *et al.* (1992), (11) Tucker *et al.* (1994), (12) van Staal *et al.* (1994), (13) Kerr (1997), (13b) Tucker in (13), (14) Cawood & Dunning (1993), (15) Kean & Jayasinghe (1982), (16) Coyle & Strong (1987), (17) DeGrace *et al.* (1976), (18) Dunning *et al.* (1990), (19) Dickson (1993), (20) O'Brien *et al.* (1991), (21) Dunning (1993), (22) Dunning & Krogh (1991), (23) Cawood *et al.* (1996), (24) Chandler *et al.* (1987), (25) Chorlton & Dallmeyer (1986), (26) Currie *et al.* (1992), (27) Dallmeyer & Hibbard (1984), (28) Dec *et al.* (1997), (29) Dube *et al.* (1996), (30) Dunning (1987b), (31) Dunning & Krogh (1985), (32) Dunning *et al.* (1987), (33) Dunning *et al.* (1990a), (34) Dunning (1989), (35) Elliott *et al.* (1991), (36) Kerr & Dunning (2003), (37) Kerr *et al.* (1993), (38) MacLachlan & Dunning (1998), (39) MacLachlan & Dunning (1998), (40) Ramezani *et al.* (2002), (41) Ritcey *et al.* (1995), (42) Tucker *et al.* (1994), (43) Zagorevski *et al.* (2006).