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Title: Geochronological database of magmatic events in Norway and related areas: update 2012			
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<p>Summary:</p> <p>This report provides an updated compilation of published U-Pb geochronological data, as Dec 2012, recording magmatic events in the Scandinavian Caledonides, in the Sveconorwegides and in the Precambrian basement of Finnmark. It is presented as an XL sheet, including literature references.</p>			
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This report provides an updated compilation of published U-Pb geochronological data recording magmatic events in the Scandinavian Caledonides, in the Sveconorwegides and in the Precambrian basement of Finnmark inside Norway. The compilation is presented as an XL sheet with georeferencing, updating the table in the data repositories of Bingen and Solli (2009) and Bingen et al. (2011). The objectives of the compilation are: (1) facilitate access to available geochronological literature, (2) picture the distribution of magmatism along the western margin of Baltica, (3) support interpretation of detrital zircon provenance studies in North Atlantic regions, and (4) provide a ready to use tool for mapping.

The compilation includes some 850 selected samples of (meta)plutonic and (meta)volcanic rocks. The compilation considers data collected with the U-Pb dating method, mainly on zircon. Data on large magmatic bodies were selected as well as data on small bodies (dykes, sills, pegmatites) and leucosomes recording enough magma segregation to be sampled separately. Literature sources include journal articles published up to 2012 or in press, geological survey reports, and a few PhD theses forming part of the commonly cited literature (e.g. Berglund 1997). A few classical abstracts, the content of which has been presented during field excursions or is reported on geological maps are compiled too (e.g. Dahlgren et al. 1990; Handke et al. 1995; Zwaan & Tucker 1996). Some pioneering studies were ignored or only partially listed, if the data are superseded or considered unreliable following today's standard (discordant zircon analyses, few analyses/ sample, alternative interpretations possible; e.g. O'Nions & Baadsgaard 1971). A few robust Re-Os, Lu-Hf and Sm-Nd geochronological data are also listed for completeness. Rb-Sr data are not listed.

Localisation of the easternmost reach of Sveconorwegian deformation is a matter of discussion. Consequently, all samples located along a broad zone corresponding to the Sveconorwegian Frontal Deformation Zone (SFDS, north of lake Vättern) and Protogine Zone (PZ, south of lake Vättern) were compiled together with samples located west of these structures. For completeness, samples of the Sveconorwegian-aged Blekinge-Dalarna Dolerites, located east of the Sveconorwegian orogen, are also listed, as well as samples of Mesoproterozoic magmatism attributed to the Danopolonian event (ca. 1500-1400 Ma; Bogdanova et al., 2008) in Southern Sweden and Bornholm. For the Caledonian belt, the Caledonian Front is unambiguously defined. The Barents Sea Region is compiled as part of the Finnmark basement.

The table includes for each entry the accepted or most reasonable tectonostratigraphic unit hosting the dated rock, a short characterization of the lithology and locality, some key data descriptors (mineral analysed, best age selection method, analytical method), the sample coordinates, and the reference. In Sweden, the coordinates are listed in the Swedish National grid (RT90), if reported in this way by the authors. Otherwise they are listed, converted or estimated in the UTM(WGS84) projection. All coordinates are converted in latitude-longitude (decimal degrees). The precision of the coordinates is described by three qualifiers: GPS: better than 10 m as provided by GPS reading, Map: typically ca. 100-200 m from reading a 1:50000 map or aerial photograph; ca.: approximate location as deduced from a description or a sketchmap. Literature sources are listed at the bottom of the table.

This updated compilation can be quoted conveniently as “updated from Bingen and Solli, 2009”.

References

Bingen, B., and Solli, A., 2009, Geochronology of magmatism in the Caledonian and Sveconorwegian belts of Baltica: synopsis for detrital zircon provenance studies: *Norwegian Journal of Geology*, v. 89, p. 267-290.

Bingen, B., Belousova, E.A., and Griffin, W.L., 2011, Neoproterozoic recycling of the Sveconorwegian orogenic belt: detrital-zircon data from the Sparagmite basins in the Scandinavian Caledonides *Precambrian Research*, v. 189, p. 347-367.

Berglund, J., 1997, Mid-Proterozoic evolution in south-western Sweden: Göteborg, Ph.D. thesis, Publication A15, Department of Geology, Earth Science Centre, Göteborg University.

Bogdanova, S., Bingen, B., Gorbatshev, R., Kheraskova, T., Kozlov, V., Puchkov, V., and Volozh, Y., 2008, The East European Craton (Baltica) before and during the assembly of Rodinia: *Precambrian Research*, v. 160, p. 23-45.

Dahlgren, S., Heaman, L.M., and Krogh, T., 1990, Abstract. Precise U-Pb zircon and baddeleyite age of the Hesjøbutind gabbro, central Telemark area, Southern Norway: *Geonytt*, v. 17, p. 38.

Handke, M.J., Tucker, R.D., and Robinson, P., 1995, Abstract. Contrasting U-Pb ages for the Risberget augen gneiss in the Norwegian Caledonides: getting to the root of the problem: *Geological Society of America Abstracts with Programs*, v. 27, p. A226.

O'Nions, R.K., and Baadsgaard, H., 1971, A radiometric study of polymetamorphism in the Bamble region, Norway: *Contributions to Mineralogy and Petrology*, v. 34, p. 1-21.

Zwaan, K.B., and Tucker, R.D., 1996, Abstract. Absolute and relative age relationships in the Precambrian West Troms Basement Complex, northern Norway, 22nd Nordic Geological Winter Meeting: Åbo, Finland.

APPENDIX

Table in XL format

Table. Selection of U-Pb, Re-Os, Lu-Hf and Sm-Nd geochronological data recording magmatic events in the Sveconorwegian and Caledonian orogens of Norway and Sweden, in the Proterozoic basement of Finnmark, Norway, and in some areas of Fennoscandia.

Entry	Megagunit 2	(1)	Definition	Sample Id	(2)	Mineral	System	Method	type	Age [Ma]	±2σ	2σ sym	Reference	Land UTM (32-36) / RT90 (S)	Lat/Long		Position		
															E	N		(degrees)	N
		(1)							(3)					Zo	E	N	(5)		
		(1)												(4)	(m)				
1	Oslo Rift	Heigland Nappe	Siljan-Hvarnes complex, Østvann syenite	81006	Zrn	U-Pb	TIMS	206/238	277.3	±0.8	0.8	0.8	Pedersen et al., 1995	N 32	547600	6572200	9.835467	59.286024	ca.
2	Oslo Rift	Heigland Nappe	Siljan-Hvarnes complex, Vierød syenite	79887	Zrn	U-Pb	TIMS	206/238	278.4	±0.8	0.8	0.8	Pedersen et al., 1995	N 32	552400	65716100	9.920649	59.320474	ca.
3	Oslo Rift	Heigland Nappe	Siljan-Hvarnes complex, Osberg larkvite	79880	Zrn	U-Pb	TIMS	206/238	278.5	±0.8	0.8	0.8	Pedersen et al., 1995	N 32	551900	65683300	9.909984	59.250499	ca.
4	Oslo Rift	Heigland Nappe	Siljan-Hvarnes complex, Siljan nordmarkite	79885	Zrn	U-Pb	TIMS	206/238	278.6	±0.8	0.8	0.8	Pedersen et al., 1995	N 32	540500	65723000	9.710880	59.587661	ca.
5	Oslo Rift	Heigland Nappe	Skrim-Mylåe complex, Mylåe ekertite	58968	Zrn	U-Pb	TIMS	206/238	278.8	±0.7	0.6	0.7	Pedersen et al., 1995	N 32	539000	65894000	9.692942	59.441324	ca.
6	Oslo Rift	Heigland Nappe	Skrim-Mylåe complex, Skrim larkvite a	75957	Zrn	U-Pb	TIMS	206/238	280.8	±0.6	0.6	0.6	Pedersen et al., 1995	N 32	538000	65816000	9.668640	59.371404	ca.
7	Oslo Rift	Heigland Nappe	Skrim-Mylåe complex, Skrim larkvite b	75954	Zrn	U-Pb	TIMS	206/238	281.2	±0.8	0.7	0.8	Pedersen et al., 1995	N 32	534200	65765000	9.600971	59.325933	ca.
8	Oslo Rift	Heigland Nappe	Larvik plutonic complex, larvalite pluton 9		Zrn	U-Pb	TIMS	?	292.1	±0.8	0.8	0.7	Dahlgren et al., 1996	N 32	527000	65530000	9.995399	59.112464	ca.
9	Oslo Rift	Heigland Nappe	Larvik plutonic complex, quartz-bearing larkvite pluton 2		Zrn	U-Pb	TIMS	?	298.6	±1.4	1.4	0.7	Dahlgren et al., 1996	N 32	578000	65650000	10.346311	59.146869	GPS
10	Oslo Rift	Heigland Nappe	Skien basalts, laminated melt-rich tuft, Kjøringsåsen, Porsgrunn	C. C05-1	Pbv	U-Pb	TIMS	3D-iso	298.9	±1.7	0.9	0.9	Corfu & Dahlgren, 2008	N 32	540010	65564600	9.698360	59.156170	GPS
11	Oslo Rift	Heigland Nappe	Brunnesbasalt, Iginnibotli, Skarvungen, Brunnes	D. C01-4	Tln	U-Pb	TIMS	3D-iso	299.9	±0.9	0.9	0.9	Corfu & Dahlgren, 2008	N 32	551500	6534687	9.895190	58.948720	GPS
12	Oslo Rift	Heigland Nappe	Brunnesbasalt, volcanoclastic ultramafic rock, Brunnes	A. C01-120	Pbv	U-Pb	TIMS	3D-iso	300.2	±0.9	0.7	0.7	Corfu & Dahlgren, 2008	N 32	548232	6536828	9.838160	58.968330	GPS
13	Oslo Rift	Heigland Nappe	Brunnesbasalt, volcanic melt-rich flow, Brunnes	B. C01-121	Pbv	U-Pb	TIMS	3D-iso	300.4	±0.7	0.7	0.7	Corfu & Dahlgren, 2008	N 32	548232	6536828	9.838160	58.968330	GPS
14	Uppermost Allichthon	Heigland Nappe	Upper Nappe, detorned porphyritic granite, Åbygda, E of Terråk	N03.06	Zrn	U-Pb	SIMS	206/238	423.8	±1.0	1.0	1.0	Barnes et al., 2007	N 33	385393	7216115	12.564728	65.048917	GPS
15	Uppermost Allichthon	Heigland Nappe	Gråtadal-Sokumfjellet unit, Tverrvika pegmatitic granite, granite	TF-81	Zrn	U-Pb	SIMS	206/238	424.7	±1.0	1.0	1.0	Barnes et al., 2012	N 33	397500	7239500	12.804480	65.262550	Map
16	Uppermost Allichthon	Heigland Nappe	Upper Nappe, Lilfjell granite pluton, porphyritic granodiorite	LEA08-27	Zrn	U-Pb	TIMS	206/238	428.0	±0.8	0.8	0.8	Eide et al., 2002	N 33	398400	7332650	12.752443	66.097949	Map
17	Uppermost Allichthon	Heigland Nappe	Upper Nappe, Mærdal, foliated tonalite pluton, tonalite	L184	Zrn	U-Pb	TIMS	conc	429	±2	2	2	Nilsen et al., 2006	N 33	406250	7203050	13.016265	64.938312	Map
18	Uppermost Allichthon	Heigland Nappe	Gråtadal-Sokumfjellet unit, Tverrvika quartz diorite, quartz diorite	LEA08-25	Zrn	U-Pb	TIMS	conc*	430.0	±0.9	0.9	0.9	Aucland et al., 2012	N 33	479212	7437064	14.522250	67.050270	GPS
19	Uppermost Allichthon	Heigland Nappe	Gråtadal-Sokumfjellet unit, Marvold granite, equigranular granite dyke	LEA08-21	Zrn	U-Pb	TIMS	206/238	430.0	±1.3	1.3	1.3	Aucland et al., 2012	N 33	481412	7453721	14.633290	67.199990	GPS
20	Uppermost Allichthon	Heigland Nappe	Pegmatitic tonchjemite sill, bouldragged, Grantangen fjord	NOR91-GE1	Mnz	U-Pb	TIMS	conc	430	±2	2	2	Steltenpohl et al., 2003	N 33	597700	7625500	17.413150	68.723960	ca.
21	Uppermost Allichthon	Heigland Nappe	Upper Nappe, Mærdal, fine-grained granodiorite sheet	L1284	Zrn	U-Pb	TIMS	lo:nt	430	±3	3	3	Nilsen et al., 2006	N 33	401700	7179700	12.711721	64.724322	Map
22	Uppermost Allichthon	Heigland Nappe	Upper Nappe, monzonite in Tosborn, monzodiorite	N87-03	Zrn	U-Pb	TIMS	lo:nt	430	±7	7	7	Nordguen et al., 1993	N 33	401500	7244550	12.891819	65.309132	Map
23	Uppermost Allichthon	Heigland Nappe	Skrima island, Skrima granite pluton, biotite granite	95.08V	Zrn	U-Pb	CPMAS	206/238	430.3	±4.1	4.1	4.1	Barnes et al., 2007	N 32	592220	7231275	10.981275	65.199776	GPS
24	Uppermost Allichthon	Heigland Nappe	Stabbursdal unit, Toldablen gabbro, equigranular gabbro	LEA08.28	Zrn	U-Pb	CPMAS	206/238	430.5	±1.1	1.1	1.1	Aucland et al., 2012	N 33	492506	7419492	14.839880	66.892270	GPS
25	Uppermost Allichthon	Heigland Nappe	Midline Nappe, boudragged leucogabbro dyke, Marvold granite	NLV1-19A	Zrn	U-Pb	CPMAS	206/238	431.2	±3.6	3.6	3.6	Barnes et al., 2007	N 33	393879	7244547	12.723087	65.306660	GPS
26	Uppermost Allichthon	Heigland Nappe	Unfoliated granitic pegmatite	AA-09-10	Zrn	U-Pb	TIMS	conc*	431.5	±1.0	1.0	1.0	Aghaj-Dzwariko et al., 2012	N 33	498424	7464274	14.963810	67.299600	GPS
27	Uppermost Allichthon	Heigland Nappe	Gråtadal-Sokumfjellet unit, Hærfjellet diorite, equigranular diorite	LEA08-22	Zrn	U-Pb	TIMS	conc*	431.7	±0.6	0.6	0.6	Aucland et al., 2012	N 33	462428	7423895	14.182880	66.930750	GPS
28	Uppermost Allichthon	Heigland Nappe	Upper Nappe, Toslen, tonalite dyke (75m wide)	TF-82	Zrn	U-Pb	SIMS	206/238	431.9	±3.5	3.5	3.5	Barnes et al., 2011	N 33	397500	7239500	12.804480	65.262550	Map
29	Uppermost Allichthon	Heigland Nappe	Gråtadal-Sokumfjellet unit, Marvold diorite, equigranular diorite	LEA08-20	Zrn	U-Pb	TIMS	conc*	432.7	±1.1	1.1	1.1	Aucland et al., 2012	N 33	481412	7453721	14.633290	67.199990	GPS
30	Uppermost Allichthon	Heigland Nappe	Gråtadal-Sokumfjellet unit, Hærfjellet foliated granite, mylonitic granite	LEA09-16	Zrn	U-Pb	TIMS	conc*	432.9	±0.9	0.9	0.9	Aucland et al., 2012	N 33	463007	7427801	14.152760	66.965640	GPS
31	Uppermost Allichthon	Heigland Nappe	Hogtid granite, cut Govedsind unit, porphyritic granite	LEA09-9	Zrn	U-Pb	TIMS	conc*	433.5	±0.5	0.5	0.5	Aucland et al., 2012	N 33	473263	7432363	14.459570	67.007900	GPS
32	Uppermost Allichthon	Heigland Nappe	Upper Nappe, Kalvatnet quartz monzonite pluton, monzonite	N488	Zrn	U-Pb	TIMS	206/238	435	±4.1	4.1	4.1	Nordguen et al., 1993	N 33	406050	7221650	12.995884	65.105048	Map
33	Uppermost Allichthon	Heigland Nappe	Upper Nappe, Toslen, net-veined monzonitic dyke	N16.05	Zrn	U-Pb	CPMAS	206/238	436.7	±3.5	3.5	3.5	Barnes et al., 2011	N 33	397500	7239500	12.804480	65.262550	Map
34	Uppermost Allichthon	Heigland Nappe	Upper Nappe, Toslen, foliated banded diorite intruded by leucogabbro	TF-70	Zrn	U-Pb	TIMS	206/238	436.9	±4.4	4.4	4.4	Barnes et al., 2011	N 33	397500	7239500	12.804480	65.262550	Map
35	Uppermost Allichthon	Heigland Nappe	Upper Nappe, granodiorite west of Gasvassfjelle, granodiorite	N89-61	Zrn	U-Pb	TIMS	up:nt	437	±4.4	4.4	4.4	Nordguen et al., 1993	N 33	411800	7216600	13.125123	65.061344	Map
36	Uppermost Allichthon	Heigland Nappe	Glasengen quartz monzonite	H	Zrn	U-Pb	CPMAS	207/206	438	±4.5	4.5	4.5	Tucker et al., 2004	N 32	495000	7088700	8.890848	63.925352	ca.
37	Uppermost Allichthon	Heigland Nappe	Lower Nappe, Heilhorn pluton, granodiorite	N08.06	Zrn	U-Pb	CPMAS	206/238	439.1	±2.8	2.8	2.8	Barnes et al., 2007	N 32	368069	7223930	12.189732	65.112514	GPS
38	Uppermost Allichthon	Heigland Nappe	Middle Nappe, boudragged gabbroic dyke, Storvika area	NLV1-7B	Zrn	U-Pb	CPMAS	206/238	442.2	±3.4	3.4	3.4	Barnes et al., 2007	N 33	393085	7241339	12.704366	65.307235	GPS
39	Uppermost Allichthon	Heigland Nappe	Middle Nappe, Krafjellet tonalite-gnanodiorite pluton	N88-3	Zrn	U-Pb	TIMS	conc	443	±7	7	7	Nordguen et al., 1993	N 33	382200	7201950	12.492039	65.100103	Map
40	Uppermost Allichthon	Heigland Nappe	Middle Nappe, West Vikra-Kalvåg, deformed two mica granite	04.07V	Zrn	U-Pb	TIMS	up:nt	443.5	±5.9	5.9	5.9	Barnes et al., 2007	N 32	581337	7206813	10.824740	64.969631	GPS
41	Uppermost Allichthon	Heigland Nappe	Heilhorn monzogranite pluton, Bursvikbotn, granite	N86-98	Zrn	U-Pb	TIMS	up:nt	444	±1.1	1.1	1.1	Nordguen & Schouenborg, 1990	N 33	366800	7225000	12.167188	65.121594	ca.
42	Uppermost Allichthon	Heigland Nappe	Andshatten granodiorite pluton, Bursvikbotn, granite	N87-02	Zrn	U-Pb	TIMS	up:nt	444	±1.1	1.1	1.1	Nordguen & Schouenborg, 1990	N 33	378750	7227800	12.369085	65.599445	Map
43	Uppermost Allichthon	Heigland Nappe	Sausfjellet diorite pluton	NZ191	Zrn	U-Pb	TIMS	up:nt	445	±1.1	1.1	1.1	Nordguen et al., 2002	N 33	388589	7245063	12.609283	65.309520	Map
44	Uppermost Allichthon	Heigland Nappe	Hilstadjellet diorite pluton	NZ191	Zrn	U-Pb	TIMS	up:nt	445	±1.1	1.1	1.1	Nordguen et al., 2002	N 33	388589	7245063	12.609283	65.309520	Map
45	Uppermost Allichthon	Heigland Nappe	Peraluminous granite-diatexite, contact Asket-Drevli pluton	N1991	Zrn	U-Pb	TIMS	up:nt	447	±3.7	3.7	3.7	Yoshinobu et al., 2002	N 33	385544	7260393	12.531135	65.445890	Map
46	Uppermost Allichthon	Heigland Nappe	Upper Nappe, Toslen, small pluton quartz diorite-quartz monzodiorite	NZ391	Zrn	U-Pb	TIMS	206/238	447.1	±3.7	3.7	3.7	Yoshinobu et al., 2002	N 33	390754	7251988	12.650157	65.372331	Map
47	Uppermost Allichthon	Heigland Nappe	Troholmen migmatite complex, metagabbro, Lunheim	TF-404	Zrn	U-Pb	CPMAS	206/238	447.8	±1.7	1.7	1.7	Barnes et al., 2007	N 33	385324	7254833	12.531092	65.395973	Map
48	Uppermost Allichthon	Heigland Nappe	Skattera migmatite complex, anorthositic dyke, Lunheim	KKR-21	Zrn	U-Pb	CPMAS	206/238	449.2	±3.5	3.5	3.5	Barnes et al., 2007	N 33	386507	7300295	12.517939	65.803898	GPS
49	Uppermost Allichthon	Heigland Nappe	Skattera migmatite complex, anorthositic dyke, Lunheim	T1	Tln	U-Pb	TIMS	206/238	456.0	±2.8	2.8	2.8	Seibek et al., 2000	N 34	424800	7370700	19.059929	69.673882	Map
50	Uppermost Allichthon	Heigland Nappe	Svarthorn pluton, quartz monzonitic gneiss in hybrid zone	N03.05	Zrn	U-Pb	CPMAS	206/238	465	±1.5	1.5	1.5	Barnes et al., 2007	N 33	381435	7257078	12.445501	65.414751	Map
51	Uppermost Allichthon	Heigland Nappe	Hortvær intrusive complex, pegmatitic monzodiorite	02.12H	Zrn	U-Pb	CPMAS	206/238	465.9	±2.2	2.2	2.2	Barnes et al., 2007	N 32	613873	7232416	11.433009	65.195302	GPS
52	Uppermost Allichthon	Heigland Nappe	Vega granite pluton, Vega	N00.07	Zrn</														

U-Pb	Zrn	TIMS	207/206	531	+2	2	N 34	579000	7808050	23.130950	70.365650	ca.
U-Pb	Zrn	TIMS	207/235	561	-4	2	N 34	579000	7808050	23.130950	70.365650	ca.
U-Pb	Zrn	TIMS	up.int	562	-6	4	N 34	546417	7820371	22.142450	70.287560	GPS
U-Pb	Zrn	TIMS	lo.int	563	-2	0	N 34	558296	7836886	22.575000	70.484220	GPS
U-Pb	Zrn	TIMS	up.int	565	-9	2	N 34	550389	7791412	22.334510	70.224060	GPS
U-Pb	Zrn	TIMS	up.int	565	-5	5	N 34	550428	7790489	22.335000	70.215780	GPS
U-Pb	Zrn	TIMS	up.int	566	+1	4	N 34	550785	7792207	22.344930	70.231110	GPS
U-Pb	Zrn	TIMS	up.int	566	+1	1	N 34	544202	7793368	22.174250	70.287560	GPS
U-Pb	Zrn	TIMS	up.int	569	+5	5	N 34	558296	7836886	22.575000	70.484220	GPS
U-Pb	Zrn	TIMS	up.int	569	+9	3	N 34	544202	7793368	22.174250	70.287560	GPS
U-Pb	Zrn	TIMS	up.int	569	+9	3	N 34	544202	7793368	22.174250	70.287560	GPS
U-Pb	Zrn	TIMS	up.int	569	+9	3	N 34	544202	7793368	22.174250	70.287560	GPS
U-Pb	Zrn	TIMS	206/238	571	+2	2	N 34	546700	7828750	22.257270	70.559480	Map
U-Pb	Zrn	TIMS	up.int	571	+4	4	N 34	550140	7833034	22.352420	70.597220	GPS
U-Pb	Zrn	TIMS	up.int	574	+5	5	N 34	546400	7829450	22.249590	70.568810	Map
U-Pb	Zrn	TIMS	up.int	579	+14	14	N 34	546100	7827800	22.240600	70.551070	Map
U-Pb	Zrn	TIMS	lo.int	602	-5	5	N 34	546100	7827800	22.240600	70.551070	Map
U-Pb	Zrn, Mnz	TIMS	conc	680	+10	10	N 34	598380	7837570	23.657510	70.623610	Map
U-Pb	Zrn	TIMS	up.int	706	+3	3	N 34	497250	70.927510	70.008050	Map	
U-Pb	Zrn	TIMS	up.int	708.8	+4.3	4.3	N 34	410664	7856406	20.566008	70.795722	GPS
U-Pb	Zrn	TIMS	conc	711	-6	6	N 34	478806	7850381	23.141579	70.745296	GPS
U-Pb	Zrn	TIMS	conc	825.7	+5.4	5.4	N 34	411312	7846972	24.598928	70.711436	GPS
U-Pb	Zrn	TIMS	conc	828.8	+8.9	8.9	N 34	403256	7843367	24.379781	70.761654	GPS
U-Pb	Zrn	TIMS	up.int	834	+19	19	N 35	408700	7848880	24.521000	70.725830	Map
U-Pb	Zrn	TIMS	up.int	838.9	+9.7	9.7	N 35	402034	7844270	24.345633	70.683766	Map
U-Pb	Zrn	TIMS	conc	841.1	+6.5	6.5	N 35	408676	7849150	24.520000	70.730000	GPS
U-Pb	Zrn	TIMS	conc	851	+5	5	N 34	591986	7827820	23.474388	70.538680	GPS
U-Pb	Zrn	TIMS	conc	853	+4	4	N 34	595638	7832664	23.578028	70.580705	GPS
U-Pb	Zrn	TIMS	up.int	876	+9	9	N 35	408920	7848270	24.527500	70.722220	Map
U-Pb	Zrn	TIMS	up.int	966	+8	8	N 35	442247	7889051	25.402540	71.097660	GPS
U-Pb	Zrn	TIMS	up.int	967	+4	4	N 35	443611	7887051	25.441670	71.080660	GPS
U-Pb	Zrn	TIMS	conc	973.2	+9.2	9.2	N 35	462112	7813702	25.986657	70.424054	GPS
U-Pb	Zrn	TIMS	conc	977.9	+4	4	N 35	465338	7846587	26.059302	70.721338	GPS
U-Pb	Zrn	TIMS	conc	981.4	+6.9	6.9	N 35	454902	7857779	25.770000	70.820000	Map
U-Pb	Zrn	TIMS	lo.int	991	+4/5	5	N 32	537500	7016450	9.747390	63.275018	Map
U-Pb	Zrn	TIMS	206/238	401	+3	3	N 33	343000	7218200	12.087547	65.059106	Map
U-Pb	Zrn	TIMS	lo.int	422.7	+1.8	1.8	N 33	540200	7016250	9.801146	63.272931	Map
U-Pb	Zrn	TIMS	lo.int	423	+2.6	2.6	N 33	458600	7150500	14.076440	64.477069	Map
U-Pb	Zrn	TIMS	?	430	+0	0	N 33	361300	7027950	11.143890	64.252477	Map
U-Pb	Zrn	TIMS	up.int	430	+1.2	1.2	N 32	603900	7126900	12.069000	64.252477	Map
U-Pb	Zrn	TIMS	207/206	431	+2.9	2.9	N 32	341300	7024500	9.961025	63.345991	Map
U-Pb	Zrn	TIMS	conc	436	+2	2	N 33	361300	7207950	12.061586	64.966549	Map
U-Pb	Zrn	TIMS	207/206	607.9	+0.7	0.7	N 33	627860	7474860	17.977780	67.362500	Map
U-Pb	Zrn	TIMS	207/206	845	+1.4	1.4	N 33	627860	7474860	17.977780	67.362500	Map
U-Pb	Zrn	TIMS	up.int	1645	+4	4	S 3	1619750	7558000	18.671683	68.022116	Map
U-Pb	Zrn	TIMS	up.int	1731	+5	5	S 3	1475310	7209330	15.281817	64.986685	Map
U-Pb	Zrn	TIMS	up.int	1744	+0	0	S 3	607346	7484833	17.510000	67.460000	ca.
U-Pb	Zrn	TIMS	up.int	1761	+9	9	S 3	608758	7439139	17.500000	67.050000	ca.
U-Pb	Zrn	TIMS	up.int	1766	+15/12	15	S 3	1524030	7422200	16.319711	65.281721	ca.
U-Pb	Zrn	TIMS	up.int	1776	+4	4	S 3	610324	7470517	17.565710	67.330620	Map
U-Pb	Zrn	TIMS	up.int	1776	+7	7	S 3	618211	7490876	17.70000	67.510000	ca.
U-Pb	Zrn	TIMS	up.int	1779	+7	7	S 3	374200	7501300	18.040000	67.600000	ca.
U-Pb	Zrn	TIMS	up.int	1780	+2	2	S 3	374200	7501300	18.040000	67.600000	ca.
U-Pb	Zrn	TIMS	conc	1785.8	+5.1	5.1	S 3	392188	7521000	17.260000	67.752000	GPS
U-Pb	Zrn	TIMS	conc	1796.9	+4	4	S 3	378094	7510839	18.128400	67.687340	GPS
U-Pb	Zrn	TIMS	conc	1796.9	+3.7	3.7	S 3	378094	7510839	18.128400	67.687340	GPS
U-Pb	Zrn	TIMS	up.int	1800	+2	2	S 3	395400	7520100	17.260000	67.780000	ca.
U-Pb	Zrn	TIMS	up.int	1802	+18	18	S 3	602122	7517046	17.473400	67.750540	GPS
U-Pb	Zrn	TIMS	conc	1876	+10	10	S 3	385563	7489317	18.319900	67.497520	GPS
U-Pb	Zrn	TIMS	lo.int	418.2	+9.2	9.2	N 32	209500	6748500	4.971160	60.811310	Map
U-Pb	Zrn	TIMS	conc	427.1	+0.7	0.7	N 32	209500	6748500	4.971160	60.811310	Map
U-Pb	Zrn, Th	TIMS	isochron	431.6	+5.1	5.1	N 32	272100	6748500	7.300298	61.180675	ca.
U-Pb	Zrn	TIMS	up.int	891.7	+4	4	N 32	387000	6774000	4.904980	60.806370	Map
U-Pb	Zrn	TIMS	up.int	926.6	+2.0	2.0	N 32	375000	6774000	4.682635	61.080797	Map
U-Pb	Zrn	TIMS	up.int	927.3	+3.2	3.2	N 32	432500	6812100	7.734513	61.436832	Map
U-Pb	Zrn	TIMS	up.int	942.2	+2.7	2.7	N 32	432450	6811900	7.733649	61.435028	Map
U-Pb	Zrn	TIMS	conc	949.6	+1.3	1.3	N 32	432700	6811800	7.736370	61.434774	Map
U-Pb	Zrn	TIMS	up.int	951	+2	2	N 32	278200	6736100	4.935748	60.698768	Map
U-Pb	Zrn	TIMS	up.int	951	+10/4	10	N 32	278000	6736200	4.931981	60.699553	Map
U-Pb	Zrn	TIMS	up.int	954	+3	3	N 32	432450	6812300	7.733503	61.438618	Map
U-Pb	Zrn	TIMS	up.int	964.8	+3.8	3.8	N 32	376500	6747800	4.727256	60.846235	Map
U-Pb	Zrn	TIMS	up.int	969	+6	6	N 32	659919	6750533	4.767460	60.823320	Map
U-Pb	Zrn	TIMS	up.int	1183	+7	7	N 32	520181	6665363	9.384300	61.920230	GPS
U-Pb	Zrn	CPMAS	Conc	1187	+18	18	N 32	520181	6665363	9.384300	61.920230	GPS
U-Pb	Zrn	CPMAS	Conc	1189	+1	1	N 32	520181	6665363	9.384300	61.920230	GPS
U-Pb	Zrn	TIMS	207/206	1189	+3	3	N 32	530350	6923950	9.588060	62.445510	Map
U-Pb	Zrn	TIMS	up.int	1190.3	+2.8	2.8	N 32	548405	7032620	9.969570	63.418810	Map
U-Pb	Zrn	CPMAS	Conc	1193	+1.5	1.5	N 32	373420	6945540	6.532685	62.618811	Map
U-Pb	Zrn	TIMS	up.int	1237	+43/35	43	N 32	616210	6846638	11.199930	61.735120	GPS
U-Pb	Zrn	TIMS	up.int	1252	+28/25	28	N 32	288500	6734100	5.126124	60.686437	Map
U-Pb	Zrn	TIMS	up.int	1252	+28/25	28	N 32	455700	6772700	8.178662	61.084939	Map
U-Pb	Zrn	TIMS	up.int	1257	+2.2	2.2	N 32	375100	6775400	6.683569	61.093387	Map
U-Pb	Zrn	TIMS	up.int	1257	+2.2	2.2	N 32	375700	6774700	6.695143	61.087298	Map

Sample ID	Age (Ma)	Material	Reference
RJR-02-129A	561	U-Pb	Roberts et al., 2006
RJR-02-291	562	U-Pb	Roberts et al., 2006
RJR-02-37A	563	U-Pb	Roberts et al., 2006
RJR-02-03B	565	U-Pb	Roberts et al., 2006
RJR-02-41C	565	U-Pb	Roberts et al., 2006
RJR-02-40B	566	U-Pb	Roberts et al., 2006
RJR-02-129D	566	U-Pb	Roberts et al., 2006
RJR-02-37B	569	U-Pb	Roberts et al., 2006
RJR-03-116	570	U-Pb	Roberts et al., 2010
RJR-02-35	571	U-Pb	Roberts et al., 2006
RJR-02-34D, 34E	574	U-Pb	Roberts et al., 2010
RJR-04-245	579	U-Pb	Roberts et al., 2010
CO3-2	602	U-Pb	Corfu et al., 2007
RJR02-25B	680	U-Pb	Corfu et al., 2007
RJR02-147A	706	U-Pb	Corfu et al., 2007
CK003	708.8	U-Pb	Kirkland et al., 2006
CK242 & CK301	711	U-Pb	Kirkland et al., 2008
CK014b	825.7	U-Pb	Kirkland et al., 2006
CK074	828.8	U-Pb	Kirkland et al., 2006
RJR02-18D	834	U-Pb	Corfu et al., 2007

Location	Sample ID	Material	Age (Ma)	Method	Reference	Notes
231 Middle Allochthon South	736	Leirungmyran gabbroic complex, pegmatite pod	1450	up.int	TIMS	Zn
232 Middle Allochthon South	C99-46	Pegmatitic gabbro, Stordalsvatn	1464	up.int	CPMS	Zn
233 Middle Allochthon South	JL-08-36	Alkali feldspar granite, Ormtjønnkampen	1476	up.int	CPMS	Zn
234 Middle Allochthon South	FLO11-02	Svarthumleivmet metagabbro, sheared pegmatitic leucocratic vein	1507	up.int	CPMS	Zn
235 Middle Allochthon South	JL-07-29	Granitic gneiss, Rostein, road to Horgen	1620	conc	CPMS	Zn
236 Middle Allochthon South	JL-09-5	Mylonitic augen gneiss, Akrestunnesen, E of Lake Storsjøen, Valsjøberget	1627	conc	CPMS	Zn
237 Middle Allochthon South	D.M0451	Alkali granitic gneiss, Hurrungane	1630	up.int	CPMS	Zn
238 Middle Allochthon South	JL-09-8	Augen gneiss, Koppang	1632	conc	CPMS	Zn
239 Middle Allochthon South	G.M0475	Anatectic granitic gneiss, Galbergsjernet	1633.6	up.int	TIMS	Zn
240 Middle Allochthon South	A.M0045-09	Charnockitic two-pyroxene granulite, Hurrungane	1633.7	up.int	TIMS	Zn
241 Middle Allochthon South	C99-47	Monzonite, Alttøy	1634	up.int	TIMS	Zn
242 Middle Allochthon South	Risbergget Nappe (?)	Augen gneiss, S limb of Heilneset Synform, Brattvåg	1649	up.int	CPMS	Zn
243 Middle Allochthon South	Upper Jotun Nappe	Jotunite gneiss, Fannaraken	1660.1	up.int	TIMS	Zn
244 Middle Allochthon South	Lower Jotun Nappe	Quartz monzonite, Tyin	1666	up.int	TIMS	Zn
245 Middle Allochthon South	Tannas Nappe	Augen gneiss, weakly deformed megacrystic granodiorite	1685	up.int	TIMS	Zn
246 Middle Allochthon South	Lower Jotun Nappe	Syenitic to monzonitic gneiss, Tyin	1694	up.int	TIMS	Zn
247 Lower Allochthon North	CKC3	Felsic, pophyry-rhyolite, Risem	1790.3	up.int	SIMS	Zn
248 Lower Allochthon North	BFRG97002	Porphyritic quartz syenite, S of Dikenas, Morrosjøbakken	1798	up.int	TIMS	Zn
249 Lower Allochthon South	JL-07-11	Granite, Høgåsen, transported(?) Tufsjingdal window (basement Moeelv Fm)	1655	conc	CPMS	Zn
250 Lower Allochthon South	JL-08-14	Granite, Andalen, transported(?) Atnesjøen window	1659	conc	CPMS	Zn
251 Lower Allochthon South	JL-09-6	Diorite, River Mistra near Akrestunnesen	1675	conc	CPMS	Zn
252 Lower Allochthon South	JL-06-59	Monzonite, E of Femunden, Lillesjøberget (basement Rendalen Fm)	1680	conc	CPMS	Zn
253 Lower Allochthon South	7	Discordant pegmatite, Traena	2062/238	up.int	TIMS	Tn
254 Windows North, Baltican Basement	3.	Discordant pegmatite, Sjøna	409	up.int	TIMS	Zn
255 Windows North, Baltican Basement	C99-10	Pegmatite, ca. 50 m in dlorite, Moskenesøy, Djupfjord bridge	410	up.int	TIMS	Zn
256 Windows North, Baltican Basement	B	Bergfjell metadiorite	1275	up.int	TIMS	Zn
257 Windows North, Baltican Basement	STB5	Granite, Sjangeli	1703	up.int	TIMS	Bdl
258 Windows North, Baltican Basement	C01-106	Plagioclase phyric dyke, Ytre Kåvika	1767	up.int	TIMS	Zn
259 Windows North, Baltican Basement	West Troms	Granite intruding supracrustal belt, Gaulis	1769.6	up.int	TIMS	Tn
260 Windows North, Baltican Basement	West Troms	Plagioclase phyric dyke, Blomback	1772	up.int	TIMS	Tn
261 Windows North, Baltican Basement	C01-103	Borge pluton, felsic pegmatite cutting gabbro, Vestvågøy	1773	up.int	TIMS	Zn
262 Windows North, Baltican Basement	C99-20	Foliation-cutting granite dyke, Kattfjord complex, Otnesneset, Kvaløya	1778	up.int	TIMS	Zn
263 Windows North, Baltican Basement	OT1	Granite, Sjangeli	1778	up.int	TIMS	Zn
264 Windows North, Baltican Basement	C02-52	Flakstadvåg complex, pegmatite in Napp gabbro, Flakstadvåg	1789	up.int	TIMS	Zn
265 Windows North, Baltican Basement	C99-30	Torslet pluton, granite, Langøy	1792	up.int	TIMS	Zn
266 Windows North, Baltican Basement	Eg1/C99-35	Eidsfjord granite, Kvaløya	1795	up.int	TIMS	Zn
267 Windows North, Baltican Basement	C99-4	Flakstadvåg complex, pegmatitic pod in gabbro, Flakstadvåg	1795	up.int	TIMS	Zn
268 Windows North, Baltican Basement	BAL-1	SW Lofoten pluton, Bålsdadd mangertite, Vestvågøy	1795	up.int	TIMS	Zn
269 Windows North, Baltican Basement	1.0599-19	Monzonite gneiss, migmatitic, Traena	1796	up.int	TIMS	Zn
270 Windows North, Baltican Basement	CK276	Tjukkfjellet granite, Seiland	1796	up.int	TIMS	Zn
271 Windows North, Baltican Basement	C99-23	Rafsdal pluton, charnockite, Austvågøy	1796	up.int	TIMS	Zn
272 Windows North, Baltican Basement	C99-19	Berge pluton, gabbro, Vestvågøy	1796	up.int	TIMS	Zn
273 Windows North, Baltican Basement	C99-27	Eidsfjord complex, anorthositic, Langøy	1796	up.int	TIMS	Zn
274 Windows North, Baltican Basement	C01-30	Amphibolite enclave, Ryggedalen	1796	up.int	TIMS	Zn
275 Windows North, Baltican Basement	Granite, Svaridal	Granite, Svaridal	1796.4	up.int	TIMS	Zn, Tn
276 Windows North, Baltican Basement	Protholith of migmatite leucosome, Sjøna	Protholith of migmatite leucosome, Sjøna	1797	up.int	TIMS	Zn
277 Windows North, Baltican Basement	3.0599-14	Quartz monzonite gneiss, Sjøna	1797	up.int	TIMS	Zn
278 Windows North, Baltican Basement	C01-10	Felsic granulite, Viken, Straumfjorden	1798	up.int	TIMS	Zn
279 Windows North, Baltican Basement	C99-7	Sund-Ølkona pluton, mangertite, Flakstadvåg	1800	up.int	TIMS	Zn
280 Windows North, Baltican Basement	C99-24	Eidsfjord complex, monzonite, Langøy	1800	up.int	TIMS	Zn
281 Windows North, Baltican Basement	2.0599-38	Syenite gneiss, Nesøy	1800	up.int	TIMS	Zn
282 Windows North, Baltican Basement	4.0599-17	Syenite gneiss, Høgtuva, Mellfjell	1800	up.int	TIMS	Zn
283 Windows North, Baltican Basement	G1	Granite, Vassjøaura	1800	up.int	TIMS	Zn
284 Windows North, Baltican Basement	C01-9	Mafic granulite, enclave in Viken gneiss, Straumfjorden	1804	up.int	TIMS	Zn
285 Windows North, Baltican Basement	MBS950166	Quartz monzodiorite, E of Tarnaby	1805	up.int	TIMS	Zn
286 Windows North, Baltican Basement	C99-22	Hopen pluton, charnockite, Austvågøy	1860	up.int	TIMS	Zn
287 Windows North, Baltican Basement	C99-21	Hopen pluton, mangertite, Austvågøy	1864	up.int	TIMS	Zn
288 Windows North, Baltican Basement	C01-91	Felsic granulite, Bløkkneset, Blokken, Sigerfjord	1870	ca.	TIMS	Zn
289 Windows North, Baltican Basement	Rig	Risem granulite	1871	up.int	TIMS	Zn
290 Windows North, Baltican Basement	C99-34	Ledingen pluton, granite, Himøy	1873	up.int	TIMS	Zn, Tn
291 Windows North, Baltican Basement	Tonalite overlain by supracrustal belt, Gaulis	Tonalite overlain by supracrustal belt, Gaulis	1940	up.int	TIMS	Zn
292 Windows North, Baltican Basement	Metagabbro Mjeldre-Skorelvatmbelt, Kvaløya	Diortite sill in Vamma Gp, Jevika-Fakken, Vannøya	1922	up.int	TIMS	Zn
293 Windows North, Baltican Basement	Diortite sill in Vamma Gp, Jevika-Fakken, Vannøya	Gabbrotonalite dyke, Simavik	2003	up.int	TIMS	Zn
294 Windows North, Baltican Basement	Nesosome, Gnumntarnes, southwest Senja	Nesosome, Gnumntarnes, southwest Senja	2612	up.int	TIMS	Zn
295 Windows North, Baltican Basement	Felsic granulite, Husøigen	Felsic granulite, Husøigen	2635	up.int	TIMS	Zn
296 Windows North, Baltican Basement	Leucosome (+melanosome), migmatite, Brokleys tumel, Sigerfjord	Leucosome (+melanosome), migmatite, Brokleys tumel, Sigerfjord	2638	up.int	TIMS	Zn
297 Windows North, Baltican Basement	Nesosome in Kattfjord gneiss, Torsnes, Kvaløya	Nesosome in Kattfjord gneiss, Torsnes, Kvaløya	2671	up.int	TIMS	Zn
298 Windows North, Baltican Basement	Granite in Kattfjord gneiss, Torsnes, Kvaløya	Granite in Kattfjord gneiss, Torsnes, Kvaløya	2684	up.int	TIMS	Zn
299 Windows North, Baltican Basement	Coarse grained granite in Torsnes Shear Zone, Torsnes, Kvaløya	Coarse grained granite in Torsnes Shear Zone, Torsnes, Kvaløya	2689	up.int	TIMS	Zn
300 Windows North, Baltican Basement	Felsic granulite gneiss, Bremnes/Bogen	Felsic granulite gneiss, Bremnes/Bogen	2692	up.int	TIMS	Zn
301 Windows North, Baltican Basement	Granodiorite, eastern flank of Svanfjellet belt, Senja	Granodiorite, eastern flank of Svanfjellet belt, Senja	2692	up.int	TIMS	Zn
302 Windows North, Baltican Basement	Mikkelvik alkaline stock, nepheline syenite	Mikkelvik alkaline stock, nepheline syenite	2707	up.int	TIMS	Zn
303 Windows North, Baltican Basement	Granodiorite, Grumfarnes, southwest Senja	Granodiorite, Grumfarnes, southwest Senja	2707	up.int	TIMS	Zn
304 Windows North, Baltican Basement	Tonalite, Bakkefjord pluton, Kvaløya	Tonalite, Bakkefjord pluton, Kvaløya	2711	up.int	TIMS	Zn
305 Windows North, Baltican Basement	Dåfjord gneiss, Skarsfjord area, Ringvassøya	Dåfjord gneiss, Skarsfjord area, Ringvassøya	2819	up.int	TIMS	Zn
306 Windows North, Baltican Basement	Tonalite gneiss, Langsund, Ringvassøya	Tonalite gneiss, Langsund, Ringvassøya	2842	up.int	TIMS	Zn
307 Windows North, Baltican Basement	Foliated tonalite, Skinningsen, Haramsøya	Foliated tonalite, Skinningsen, Haramsøya	2885	up.int	TIMS	Zn
308 Windows North, Baltican Basement	Granite pegmatite, crosscutting Haram gabbro, Haramsøya	Granite pegmatite, crosscutting Haram gabbro, Haramsøya	390.2	up.int	TIMS	Zn
309 Windows North, Baltican Basement						
310 Windows South, Baltican Basement						

311	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	TK98-19	Zn	U-Pb	TIMS	up: int	394.5	+2	2	Krogh et al., 2011	N 32	365910	6956070	6.378140	62.710570	GPS
312	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	K	Zn	U-Pb	TIMS	206/238	395.2	+1.8	1.3	Krogh et al., 2011	N 32	416900	6984300	7.360460	62.971820	Map
313	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	TK97-15	Zn	U-Pb	TIMS	207/206	395.3	+1.3	1.8	Krogh et al., 2011	N 32	434350	6985200	7.884820	62.992110	Map
314	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	TK98-25	Zn	U-Pb	TIMS	207/206	396	+4	4	Krogh et al., 2011	N 32	358750	6954400	6.239720	62.692920	Map
315	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	URTR86-5	Zn	U-Pb	TIMS	207/206	400	+2	2	Tucker et al., 2004	N 32	524800	7021300	9.534964	63.319504	Map
316	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	C99-51	Zn	U-Pb	TIMS	conc	401	+1	1	Austheim et al., 2003	N 32	405900	6985050	7.143137	62.982967	Map
317	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	SRTR86-43	Zn	U-Pb	TIMS	207/206	403	+2	2	Austheim et al., 2004	N 32	500300	7024500	9.009994	63.349221	Map
318	Windows South, Bailican Basement	HP	Central Norway window	83022	Zn	U-Pb	TIMS	lo: int	404	+2	2	Schouenborg et al., 1991	N 32	623500	7162600	11.619436	64.562592	Map
319	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	TRTR86-81	Zn	U-Pb	TIMS	207/206	404	+2	2	Tucker et al., 2004	N 32	538010	6976567	9.765647	63.579899	Map
320	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	26-TRTR71-69	Zn	U-Pb	TIMS	up: int	942	+5/3	5	Tucker et al., 1990b	N 32	404600	6893000	7.171010	62.123640	Map
321	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	29-TRTR71-69	Zn, Th	U-Pb	TIMS	up: int	943	+5	5	Tucker et al., 1990b	N 32	424800	6878200	7.526831	62.028607	Map
322	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	27-TRTR71-72	Zn	U-Pb	TIMS	up: int	951	+5/+3	5	Tucker et al., 1990b	N 32	408900	6879700	7.258344	62.038570	Map
323	Windows South, Bailican Basement	HP	Western Gneiss Region, HP		Zn	U-Pb	TIMS	up: int	954	+41/+33	41	Corfu, 1980	N 32	467100	6782100	8.388392	61.172004	Map
324	Windows South, Bailican Basement	HP	Western Gneiss Region, HP		Zn	U-Pb	TIMS	up: int	966	+3	3	Skår & Pedersen, 2003	N 32	371700	6824100	6.587225	61.529114	Map
325	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	7	Zn	U-Pb	TIMS	206/238	971	+5	5	Skår & Pedersen, 2003	N 32	371200	6788500	6.601030	61.207720	Map
326	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	5	Tln	U-Pb	TIMS	up: int	976	+8	8	Corfu, 1980	N 32	402100	6796800	7.172892	61.292063	Map
327	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	C99-53	Zn, Bell	U-Pb	TIMS	up: int	1251	+3	3	Austheim et al., 2003	N 32	404300	6953700	7.112108	62.988379	ca.
328	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	TK98-24	Zn	U-Pb	TIMS	up: int	1255	+2	2	Krogh et al., 2011	N 32	359750	6956900	6.295650	62.688820	Map
329	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	R	Zn	U-Pb	TIMS	up: int	1461	+2	2	Tucker et al., 2004	N 32	516100	7026100	9.321858	63.363224	Map
330	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	TK97-18	Zn	U-Pb	TIMS	up: int	1466	+2	2	Krogh et al., 2011	N 32	355000	6950400	6.199880	62.655660	Map
331	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	4 (PR-944X)	Zn	U-Pb	TIMS	up: int	1605	+37/+33	37	Rohr et al., 2013	N 32	394591	6957395	6.937620	62.731810	Map
332	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	6 (PR-A)	Zn	U-Pb	TIMS	up: int	1614	+19/+30	19	Rohr et al., 2013	N 32	397555	6961375	6.993140	62.766350	Map
333	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	1	Zn	U-Pb	TIMS	conc	1621	+3	3	Skår & Pedersen, 2003	N 32	309900	6783100	5.468889	61.736284	Map
334	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	3 samples	Zn	U-Pb	TIMS	up: int	1633	+8	8	Skår & Pedersen, 2003	N 32	373900	6785200	6.717995	61.781992	Map
335	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	8 (PR-C)	Zn	U-Pb	IPMS	up: int	1633	+17	17	Rohr et al., 2013	N 32	358710	6954350	6.238980	62.692460	Map
336	Windows South, Bailican Basement	HP	Gronj-Olden Cullinhalion		Zn	U-Pb	TIMS	up: int	1633.2	+2.9	2.9	Roberts et al., 1999	N 32	287500	7114600	13.275416	64.147616	Map
337	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	92010	Zn	U-Pb	TIMS	up: int	1640.5	+2.3	2.3	Skår et al., 1994	N 32	281600	6808400	5.025374	61.351391	Map
338	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	20-TRTR71-14	Zn	U-Pb	TIMS	conc	1644	+6	6	Rohr et al., 2013	N 32	359875	6953875	6.262110	62.688640	Map
339	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	7 (PR-B)	Zn	U-Pb	TIMS	up: int	1646	+110	110	Rohr et al., 2013	N 32	281100	6766800	4.954090	60.695310	Map
340	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	20-TRTR71-14	Zn	U-Pb	IPMS	up: int	1647	+ca.	ca.	Tucker et al., 1990b	N 32	343100	6939100	7.659078	62.576310	Map
341	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	1 (PR-412)	Zn	U-Pb	TIMS	up: int	1650	+11	11	Rohr et al., 2013	N 32	388839	6952344	6.828500	62.684810	Map
342	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	4 samples	Zn	U-Pb	TIMS	up: int	1652	+2	2	Tucker et al., 1987	N 32	545800	7034500	9.917940	63.436029	Map
343	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	C99-55	Zn	U-Pb	TIMS	up: int	1653	+2	2	Austheim et al., 2003	N 32	404500	6985450	7.116383	62.986203	Map
344	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	C99-50	Zn	U-Pb	TIMS	up: int	1654	+2	1	Austheim et al., 2003	N 32	405900	6985050	7.143137	62.982967	Map
345	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	31T5-B7-5	Zn	U-Pb	TIMS	up: int	1657	+5/+3	5	Austheim et al., 1990b	N 32	511300	7036800	9.222668	63.459437	Map
346	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	7-TRTR84-22	Zn, Th	U-Pb	TIMS	up: int	1658	+2	2	Tucker et al., 1990b	N 32	435400	6995300	7.721020	63.081386	ca.
347	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Granite gneiss, Frei Island	Zn, Th	U-Pb	TIMS	up: int	1659	+2	2	Tucker et al., 1987	N 32	518000	7035600	9.360910	63.448392	Map
348	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Migmatite gneiss, Astfjord, 2 samples	Zn	U-Pb	TIMS	up: int	1659	+2	2	Tucker et al., 1990b	N 32	529900	7027500	9.597984	63.374899	Map
349	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Migmatitic gneiss, tonalitic gneiss, Vavatnet	Zn	U-Pb	TIMS	up: int	1659	+ca.	ca.	Tucker et al., 1990b	N 32	459000	6970900	8.211929	62.865956	Map
350	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Granitic gneiss, Meisingst	Zn	U-Pb	TIMS	up: int	1659	+ca.	ca.	Tucker et al., 1990b	N 32	462700	6965900	8.267264	62.853688	Map
351	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Tonalite gneiss, Asprey	Zn	U-Pb	TIMS	up: int	1659	+ca.	ca.	Tucker et al., 1990b	N 32	504800	7001200	9.095220	63.140078	Map
352	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Migmatitic gneiss, greyn tonalite gneiss, Karøydalen	Zn	U-Pb	TIMS	up: int	1660	+ca.	ca.	Tucker et al., 1990b	N 32	437300	6968600	8.483481	62.846569	Map
353	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Granite gneiss, Alvund	Zn	U-Pb	TIMS	up: int	1660	+ca.	ca.	Tucker et al., 1990b	N 32	424500	7037400	9.491517	63.464157	Map
354	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Granite gneiss, Svaggfjorden	Zn, Th	U-Pb	IPMS	up: int	1661	+2	2	Tucker et al., 2013	N 32	376617	6945399	6.595040	62.619630	Map
355	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Layred migmatite gneiss, Rekdalshøsten anitforn, Medøya	Zn	U-Pb	IPMS	up: int	1662	+117	117	Rohr et al., 2013	N 32	424800	6878200	7.562831	62.028607	Map
356	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Mylonitic migmatite gneiss, Bredalshesten	Zn	U-Pb	TIMS	up: int	1664	+3	3	Krogh et al., 2011	N 32	355300	6956300	6.175910	62.654820	Map
357	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Mylonitic granitic gneiss, margin of Haram gabbro, Haramsøya	Zn	U-Pb	TIMS	up: int	1664	+ca.	ca.	Tucker et al., 1990b	N 32	471600	6962400	8.532382	62.735440	Map
358	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Granite gneiss, Sundskjora	Zn	U-Pb	TIMS	up: int	1664	+ca.	ca.	Tucker et al., 1990b	N 32	473000	6962400	8.504057	62.790993	Map
359	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Granite migmatite gneiss, Smiset	Zn	U-Pb	TIMS	up: int	1672	+ca.	ca.	Tucker et al., 1990b	N 32	473000	6897500	8.539398	62.719558	ca.
360	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Granite gneiss, Solsjor, Domås	Zn	U-Pb	TIMS	up: int	1678	+ca.	ca.	Tucker et al., 1990b	N 32	457200	6977000	8.157304	62.920394	Map
361	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Migmatite gneiss, leucosome + host, Tingvoll	Zn, Th	U-Pb	TIMS	up: int	1686	+2	2	Tucker et al., 1990b	N 32	432300	6951500	7.462679	62.685612	Map
362	Windows South, Bailican Basement	HP	Western Gneiss Region, HP	Granite migmatite gneiss, Solesnes	Zn	U-Pb	TIMS	up: int	1686	+ca.	ca.	Tucker et al., 1990b	N 32	368400	7147600	12.266888	64.428531	Map
363	Windows South, Bailican Basement	HP	Central Norway window	Coarse porphyritic granite, Geilfjell granite	Zn	U-Pb	TIMS	up: int	1795	+52/+49	52	Johansson et al., 1993a	N 33	629400	7201100	11.587615	64.911543	ca.
364	Windows South, Bailican Basement	HP	Rogaland Vest Agder	Weakly deformed tonalite	Zn	U-Pb	TIMS	up: int	1818	+6	6	Schouenborg et al., 1991	N 32	622400	6471600	6.262363	58.396395	Map
365	Telemarkia Terrane		Rogaland Vest Agder	Egersund dolerite dyke swarm, Barstad, dolerite dyke 4	Zn	U-Pb	TIMS	up: int	616	+3	3	Biingen et al., 1998	N 32	344000	6528300	6.641193	58.872932	Map
366	Telemarkia Terrane		Rogaland Vest Agder	Humedalen dolerite dyke swarm	Cpx	Sm-Nd	isochron	855	+59	20	Waldheraug et al., 1999	N 32	364000	6480000	7.920000	58.460000	ca.	
367	Telemarkia Terrane		Telemark	Eye-lveiland pegmatites	Gdl	U-Pb	TIMS	conc	910.5	+1.6	1.6	Scherer et al., 2001	N 32	395000	6440200	7.218992	58.090757	ca.
368	Telemarkia Terrane		Rogaland Vest Agder	Pegmatite in Lyngdal granulodiorite pluton, Rymteland	Urn	U-Pb	TIMS	207/206	914	+6	4	Pasteels et al., 1979	N 32	315600	6487300	5.836546	58.487424	Map
369	Telemarkia Terrane		Rogaland Vest Agder	AMC suite, margin Egersund-Ogna anorthosit, mega-orthopyroxene	Urn	U-Pb	TIMS	207/206	915	+4	4	Scharer et al., 1996	N 32	359100	6460300	6.984560	58.261170	Map
370	Telemarkia Terrane		Rogaland Vest Agder	AMC suite, monzonitite, Lomland dyke, Klungland	Zn	U-Pb	SIMS	206/238	916	+9	9	Vander Auwera et al., 2011	N 32	343600	6481900	6.319930	58.449730	Map
371	Telemarkia Terrane		Rogaland Vest Agder	AMC suite, fayalite, quartz mangerite, Bjerkreim-Sokndal intrusion	Zn	U-Pb	SIMS	conc	919	+8	8	Vander Auwera et al., 2011	N 32	349000	6469000	6.420823	58.335887	ca.
372	Telemarkia Terrane		Rogaland Vest Agder	AMC suite, hypersthene quartz mangerite, Bjerkreim-Sokndal intrusion	Zn	U-Pb	SIMS	conc	920	+6	6	Vander Auwera et al., 2011	N 32	349000	6469000	6.420823	58.335887	ca.
373	Telemarkia Terrane		Rogaland Vest Agder	AMC suite, Telles dyke, ilmenite nodules	Xrit	Th-U-Pb	EPMA	element	923	+8	8	Heberington et al., 2008	N 32	357550	6456600	6.574332	58.227474	ca.
374	Telemarkia Terrane		Rogaland Vest Agder	AMC suite, Pegmatite dyke, Ursdal, Hidra	Zn	U-Pb	TIMS	207/206	929	+2	2	Scharer et al., 1996	N 32	316200	6468500	5.847464	58.460321	Map
375	Telemarkia Terrane		Rogaland Vest Agder	AMC suite, Egersund-Ogna anorthosit, mega-orthopyroxene	Zn	U-Pb	TIMS	up: int	930	+ca.	ca.	Scharer et al., 1979	N 32	359500	6460000	6.605447	58.258610	ca.
376	Telemarkia Terrane		Rogaland Vest Agder	Farsund charnockite pluton	Zn	U-Pb	TIMS	up: int	931	+10	10	Vander Auwera et al., 2011	N 32	347500	6475300	6.290580	58.389910	Map
377	Telemarkia Terrane		Rogaland Vest Agder	AMC suite, fayalite quartz mangerite, Bjerkreim-Sokndal intrusion	Zn	U-Pb	TIMS	conc										

471	Telemarkia Terrane	Telemark	Vindsggen qp. Sandvik meladiabase	Zrn	U-Pb	TIMS	up: int	1347	+4	4	Corfu & Laajoki, 2008	6599661	8 235285	59 533071	GPS
472	Telemarkia Terrane	Telemark	Banded gneiss, Vanne	Zrn	U-Pb	ICPMS	conc	1459	+8	3	Pedersen et al., 2002	6487398	7 827398	58 520882	Map
473	Telemarkia Terrane	Telemark	Tinn granite	Zrn	U-Pb	SIMS	up: int	1476	+13	8	Pedersen et al., 2002b	6650900	8 752625	59 995178	Map
474	Telemarkia Terrane	Telemark	Tinn granite	Zrn	U-Pb	SIMS	up: int	1476	+20	20	Andersen et al., 2002b	6652300	8 833060	60 007878	Map
475	Telemarkia Terrane	Syddal	WMD2235	Zrn	U-Pb	SIMS	up: int	1485	+11	11	Roberts et al., 2013	6570396	6 336760	59 245260	Map
476	Telemarkia Terrane	Rogaland Vest Agder	Fine-grained biotite gneiss, strongly deformed, 69%SiO2	Zrn	U-Pb	TIMS	up: int	1486	+11	50	Pastels & Michot, 1975	6443500	7 062281	58 118118	Map
477	Telemarkia Terrane	Syddal	Lynghol granite gneiss, Skomvak	Zrn	U-Pb	TIMS	207/206	1489	+1	3	Roberts et al., 2005b	6695100	6 640697	60 71371	Map
478	Telemarkia Terrane	Syddal	Ulenrsnng qp. metarhyolite	Zrn	U-Pb	TIMS	up: int	1491	+9	9	Bingen et al., 2013	6635370	6 353570	59 318810	GPS
479	Telemarkia Terrane	Syddal	Skanevik supracrustals, metarhyolite	Zrn	U-Pb	TIMS	up: int	1491	+5	5	Bingen et al., 2005b	6625250	6 003597	59 730915	Map
480	Telemarkia Terrane	Telemark	Granite gneiss, Gol	Zrn	U-Pb	TIMS	up: int	1492	+3	3	Bingen et al., 2005b	6727800	8 891980	60 685840	Map
481	Telemarkia Terrane	Rogaland Vest Agder	Sirdal belt, Granitoid, 73%SiO2, inheritance?	Zrn	U-Pb	TIMS	up: int	1492	+3	3	Bingen et al., 2005b	6727800	8 891980	60 685840	Map
482	Telemarkia Terrane	Syddal	Sirdal belt, Granitoid, 73%SiO2, inheritance?	Zrn	U-Pb	TIMS	up: int	1492	+3	3	Bingen et al., 2005b	6727800	8 891980	60 685840	Map
483	Telemarkia Terrane	Syddal	Coarse-grained hornblende granite, weakly deformed	Zrn	U-Pb	TIMS	up: int	1495	+7	7	Stagstad et al., 2013	6549116	6 604380	59 470000	GPS
484	Telemarkia Terrane	Syddal	Coarse-grained hornblende granite, weakly deformed	Zrn	U-Pb	TIMS	up: int	1495	+7	7	Stagstad et al., 2013	6549116	6 604380	59 470000	GPS
484	Telemarkia Terrane	Telemark	Augen gneiss, Reldal	Zrn	U-Pb	ICPMS	207/206	1495	+13	3	Blngen et al., 2005b	6632511	6 768182	59 811361	GPS
484	Telemarkia Terrane	Telemark	Rjukan Gp. Vermok fm. Skardfoss rhyolite	Zrn	U-Pb	TIMS	up: int	1495	+13	3	Laajoki & Corfu, 2007	6636106	6 768182	59 811361	GPS
485	Telemarkia Terrane	Telemark	Sauda gneiss, xenolith in Iveland-Gautestad intrusion, Kleppfjell	Zrn	U-Pb	ICPMS	conc	1496	+11	11	Pedersen et al., 2009	6485800	7 918786	58 508211	Map
486	Telemarkia Terrane	Syddal	Banded supracrustals, augen gneiss	Zrn	U-Pb	ICPMS	207/206	1496	+11	11	Pedersen et al., 2005b	6615548	6 433727	59 661461	Map
487	Telemarkia Terrane	Syddal	Sauda supracrustals, granodioritic gneiss	Zrn	U-Pb	ICPMS	207/206	1497	+12	2	Bingen et al., 2005b	6615548	6 433727	59 661461	Map
488	Telemarkia Terrane	Syddal	pegmatitic zone of hornblende gabbro, weakly deformed, 58%SiO2	Zrn	U-Pb	TIMS	207/206	1498	+2	2	Roberts et al., 2013	6603195	6 263220	59 538244	GPS
489	Telemarkia Terrane	Syddal	Botsvain complex, granodioritic gneiss, Bykle	Zrn	U-Pb	SIMS	207/206	1498	+8	8	Bingen et al., 2005b	6584563	7 266412	59 388211	GPS
490	Telemarkia Terrane	Syddal	Granite gneiss, Vanvik	Zrn	U-Pb	ICPMS	207/206	1499	+11	11	Bingen et al., 2005b	6640087	6 344655	59 548118	GPS
491	Telemarkia Terrane	Syddal	Granite gneiss, Vanvik	Zrn	U-Pb	TIMS	207/206	1499	+12	12	Bingen et al., 2005b	6640087	6 344655	59 548118	GPS
492	Telemarkia Terrane	Syddal	Medium-grained hornblende gabbro, undeformed, 50%SiO2	Zrn	U-Pb	TIMS	207/206	1500	+9	9	Roberts et al., 2013	6594548	7 263658	59 368059	GPS
493	Telemarkia Terrane	Syddal	Augen gneiss, Sand	Zrn	U-Pb	ICPMS	207/206	1501	+9	9	Roberts et al., 2013	6594548	7 263658	59 368059	GPS
494	Telemarkia Terrane	Syddal	Augen gneiss, Sand	Zrn	U-Pb	ICPMS	207/206	1501	+9	9	Roberts et al., 2013	6594548	7 263658	59 368059	GPS
495	Telemarkia Terrane	Rogaland Vest Agder	Sirdal belt, Granitoid, 74%SiO2, inheritance?	Zrn	U-Pb	TIMS	up: int	1502	+14	14	Stagstad et al., 2013	6548784	6 581780	59 475522	GPS
496	Telemarkia Terrane	Syddal	Fine-grained felsic gneiss, strongly deformed, 70%SiO2	Zrn	U-Pb	TIMS	up: int	1502	+16	16	Roberts et al., 2013	6615430	6 464440	59 652400	GPS
497	Telemarkia Terrane	Telemark	Rjukan Gp. porphyritic rhyolite dyke, Myrstad	Zrn	U-Pb	TIMS	up: int	1503	+1.3	1.3	Dahlgren et al., 1990b	6628500	8 720262	59 793974	ca.
497	Telemarkia Terrane	Syddal	Medium-grained biotite granite, undeformed, 76%SiO2	Zrn	U-Pb	TIMS	up: int	1503	+1.3	1.3	Dahlgren et al., 2013	6627090	6 123540	59 750130	GPS
498	Telemarkia Terrane	Syddal	Granite, Aurdal	Zrn	U-Pb	TIMS	207/206	1506	+2	2	Bingen et al., 2005b	6607000	5 742853	59 560244	Map
499	Telemarkia Terrane	Syddal	Granodiorite, Sand	Zrn	U-Pb	TIMS	207/206	1506	+13	13	Bingen et al., 2005b	6594411	6 410599	59 462507	Map
500	Telemarkia Terrane	Syddal	Fls, granodioritic banded gneiss, Vardfjell SZ	Zrn	U-Pb	SIMS	conc	1507	+14	14	Bingen et al., 2008b	6703500	9 450995	60 466940	Map
501	Telemarkia Terrane	Syddal	Coarse-grained porphyritic felsic gneiss, strongly deformed, 67%SiO2	Zrn	U-Pb	ICPMS	207/206	1509	+6	6	Roberts et al., 2013	6593772	6 181340	59 452020	Map
502	Telemarkia Terrane	Telemark	Rjukan Gp. tonalitic gneiss	Zrn	U-Pb	TIMS	up: int	1509	+19/+3	19	Ragnhildstveit et al., 1994	6650600	8 406738	59 990486	Map
503	Telemarkia Terrane	Telemark	Rjukan Gp. metarhyolite, Rumbelohovet	Zrn	U-Pb	TIMS	up: int	1510	ca.	ca.	Dahlgren et al., 1990b	6650600	8 406738	59 990486	Map
504	Telemarkia Terrane	Syddal	Medium-grained biotite-hornblende granite dyke, undeformed, 64%SiO2	Zrn	U-Pb	TIMS	207/206	1511	+1	1	Roberts et al., 2013	6607361	6 292870	59 676580	GPS
505	Telemarkia Terrane	Syddal	Fine-grained banded gneiss, strongly deformed, 72%SiO2	Zrn	U-Pb	TIMS	up: int	1512	+10	10	Roberts et al., 2013	6654991	6 325980	59 487920	GPS
506	Telemarkia Terrane	Telemark	Rjukan Gp. metarhyolite, Dvald	Zrn	U-Pb	TIMS	up: int	1512	+10/+8	10	Bingen et al., 2005b	8371712	6 024768	59 618819	Map
507	Telemarkia Terrane	Syddal	Augen gneiss, Vanvik	Zrn	U-Pb	ICPMS	207/206	1516	+11	11	Bingen et al., 2005b	6609974	6 269602	59 518819	GPS
508	Telemarkia Terrane	Syddal	Augen gneiss, Vanvik	Zrn	U-Pb	ICPMS	207/206	1518	+6	6	Roberts et al., 2013	6605374	6 269590	59 558020	GPS
509	Telemarkia Terrane	Syddal	Fine-grained felsic gneiss, strongly deformed, 75%SiO2	Zrn	U-Pb	ICPMS	207/206	1519	+6	6	Roberts et al., 2013	6697318	6 484292	59 654930	GPS
510	Telemarkia Terrane	Syddal	Sudal supracrustals, granodioritic gneiss	Zrn	U-Pb	SIMS	conc	1521	+12	12	Bingen et al., 2005b	657318	6 484292	59 654930	GPS
511	Telemarkia Terrane	Syddal	Fine-grained felsic gneiss, strongly deformed	Zrn	U-Pb	SIMS	conc	1528	+16	16	Roberts et al., 2013	6616037	6 177680	59 469490	GPS
512	Telemarkia Terrane	Vardfjell shear zone	Tonalitic banded gneiss, Fls, Vardfjell shear zone	Zrn	U-Pb	ICPMS	lo: int	1555	+29	29	Pedersen et al., 2009	6699230	9 472278	60 428527	GPS
513	Bamble-Kongsberg Terranes	Telemark	Metatonalite, Asen	Zrn, Thn	U-Pb	SIMS	up: int	920	+16/+27	27	Kullerud & Machado, 1991	6469000	8 304135	58 462377	Map
514	Bamble-Kongsberg Terranes	Bamble	Herfoss granite pluton	Zrn	U-Pb	TIMS	up: int	989	+9	9	Kullerud & Machado, 1991	6469000	8 304135	58 462377	Map
515	Bamble-Kongsberg Terranes	Bamble	Grimstad Granite	Zrn	U-Pb	TIMS	up: int	1032	+4/+3	3	Dahlgren et al., 1998	6481450	8 889416	58 537367	Map
516	Bamble-Kongsberg Terranes	Bamble	Lamprolle dyke, Tromøy, Sanda	Eux	U-Pb	TIMS	up: int	1066	+8/+6	6	Badsgaard et al., 1984	6481450	8 889416	58 537367	Map
517	Bamble-Kongsberg Terranes	Bamble	Gosefelle pegmatite	Gdl	U-Pb	TIMS	up: int	1094	+11	11	Scherer et al., 2011	6498000	8 926090	58 620000	Map
518	Bamble-Kongsberg Terranes	Bamble	Metagabbro, Ringjsjv	Zrn	U-Pb	TIMS	up: int	1149	+7	7	Engvik et al., 2001	6530300	9 526690	58 953560	Map
519	Bamble-Kongsberg Terranes	Bamble	Pegmatite in Tvedestrand	Zrn	U-Pb	TIMS	up: int	1152	+9	9	Kullerud & Machado, 1991	6501300	9 105116	58 451930	Map
520	Bamble-Kongsberg Terranes	Bamble	Gjevung charnockite gneiss	Zrn	U-Pb	ICPMS	conc	1178	+6	6	Andersen et al., 2004a	6476400	8 7311174	58 428056	Map
521	Bamble-Kongsberg Terranes	Bamble	Tromøy granulite complex, mafic (noritic) gneiss	Zrn	U-Pb	SIMS	207/206	1198	+26	26	Andersen et al., 2004a	6479000	8 811525	58 428056	Map
522	Bamble-Kongsberg Terranes	Bamble	Altered tonalite, Ringjsjv	Zrn	U-Pb	TIMS	up: int	1294	+38	38	Engvik et al., 2011	6535400	9 537170	58 957110	Map
523	Bamble-Kongsberg Terranes	Bamble	Nelaug gneiss	Zrn	U-Pb	TIMS	up: int	1460	+21	21	de Haas et al., 2002	6502000	8 638063	58 657750	ca.
524	Bamble-Kongsberg Terranes	Kongsberg	Veldstad granodioritic gneiss, Veldstad, Sigdal	Zrn	U-Pb	TIMS	up: int	1500	+5	5	Bingen et al., 2005b	6654300	9 705104	60 024058	Map
525	Bamble-Kongsberg Terranes	Bamble	Jomas granodiorite	Zrn	U-Pb	ICPMS	up: int	1522	+14	14	Andersen et al., 2004a	6496800	8 588633	58 610899	Map
526	Bamble-Kongsberg Terranes	Kongsberg	Metadiatle gneiss, Bingen	Zrn	U-Pb	ICPMS	up: int	1529	+7	7	Andersen et al., 2004a	6636400	9 687417	59 863416	Map
527	Bamble-Kongsberg Terranes	Kongsberg	Granodiorite, Snarum	Zrn	U-Pb	ICPMS	up: int	1534	+9/+8	9	Andersen et al., 2004a	6658400	9 811851	60 060262	Map
528	Bamble-Kongsberg Terranes	Bamble	Charnockite gneiss, Flosia	Zrn	U-Pb	TIMS	up: int	1542	+8	8	Kullerud & Machado, 1991	6489500	8 975948	58 545992	Map
529	Bamble-Kongsberg Terranes	Bamble	Justøy tonalite, Justøy	Zrn	U-Pb	ICPMS	up: int	1557	+24	24	Andersen et al., 2004a	6451700	8 306225	58 204890	Map
530	Bamble-Kongsberg Terranes	Bamble	Justøy tonalite, Homborsund	Zrn	U-Pb	ICPMS	up: int	1569	+23	23	Andersen et al., 2004a	6451700	8 306225	58 204890	Map
531	Bamble-Kongsberg Terranes	Idefjordlen	Gierstadvatn tonalite	Zrn	U-Pb	ICPMS	up: int	1572	+20	20	Andersen et al., 2004a	6542700	9 050276	58 862218	Map
532	Idefjordlen Terrane	Idefjordlen	Blomskog granite, pegmatite, A-rating	Moly	Re-Os	TIMS	model	915	+11	11	Bingen et al., 2006	6599407	12 084160	59 381188	Map
533	Idefjordlen Terrane	Idefjordlen	Hakfjordlen porite, contact melt	Zrn	U-Pb	SIMS	conc	916	+3	3	Scherer et al., 2000	6599407	12 084160	59 381188	Map
534	Idefjordlen Terrane	Begna	Bonus granite, pegmatite-splite	Mnz	U-Pb	TIMS	206/238	922	+5	5	Eliasson & Schobberg, 1991	6443000	11 439462	58 291905	ca.
535	Idefjordlen Terrane	Begna	Pb granite, phenocryst granite	Zrn	U-Pb	ICPMS	207/206	928	+8	8	Bingen et al., 2006c	6694000	6 604050	60 337486	Map
536	Idefjordlen Terrane	Begna	Pb granite, granite, Hegfjelleit, Flaskerudstaler	Zrn	U-Pb	ICPMS	conc	932	+8	8	Lammen et al., 2011	6595972	10 032270	60 347080	GPS
537	Idefjordlen Terrane	Idefjordlen	Galeberg dolerite, Tuve dyke	Bdl	U-Pb	TIMS	207/206	935	+3	3	Helstrom et al., 2004	6636200	11 745980	57 797178	Map
538	Idefjordlen Terrane	Idefjordlen	Vinga porphyry	Zrn	U-Pb	TIMS	conc	951	+7	7	Aracaback et al., 2008	6495500	11 591373	57 636584	Map
539	Idefjordlen Terrane	Idefjordlen	Vinga porphyry	Zrn	U-Pb	TIMS	up: int	963	+17	17	Ahali & Schobberg, 1999	6397400	11 607950	57 633750	Map
540	Idefjordlen Terrane	Idefjordlen	Skleiboda rare-mineral pegmatite	Clm	U-Pb	TIMS	up: int	984.3	+6.4	6.4	Romer & Smets, 1996	6473899	12 165940	58 336510	Map
541	Idefjordlen Terrane	Idefjordlen	Hogsboda rare-mineral pegmatite	Clm	U-Pb	TIMS	207/206	1029.7	+1.4	1.4	Romer & Smets, 1996	6400650	11 930405	57 671263	ca.
542	Idefjordlen Terrane	Idefjordlen	Timmerhult rare-mineral pegmatite	Clm	U-Pb	TIMS	207/206	1038.7	+3.4	3.4	Romer & Smets, 1996	6464795	11 939870	58 240360	ca.
543	Idefjordlen Terrane	Idefjordlen	Skandorp rare-mineral pegmatite	Clm	U-Pb	TIMS	207/206	1041.3	+1.6	1.6	Romer & Smets, 1996	6454725	11 612900	58 142120	ca.
544	Idefjordlen Terrane	Idefjordlen	Sandsjv rare-mineral pegmatite	Zrn	U-Pb	TIMS	up: int	1210	+36/+34	36	Wain et al., 1981	6613800	11 984		

Utsand granite	Zn	U-Pb	TIMS	?	1319	+6	6	Piontek et al., 1998	S	33	343000	6481000	12.310280	58.441440	ca.	
Stravilla augen gneiss	Zn	U-Pb	TIMS	up.int	1325	+6	18	Andersson, 2001	S	S	1283700	6357000	12.217365	57.802470	Map	
Kärna granite, pegmatite	Zn	U-Pb	SIMS	conc	1325	+8	18	Austin Högard et al., 2007	S	S	1272500	6415050	11.977800	57.802130	Map	
Veddige augen gneiss	Zn	U-Pb	TIMS	up.int	1329	+4,1	7,1	Andersson, 2001	S	S	1295350	6355400	12.411530	57.276493	Map	
Chalmers gabbro, felsic facies	Zn	U-Pb	SIMS	conc	1332,6	+7,5	4,5	Kia et al., 2003	S	S	1271160	6402670	11.974470	57.690760	Map	
Hastefjordens granite	Zn	U-Pb	TIMS	?	1334	+7/3	7	Piontek et al., 1998	S	S	336300	6488500	12.190280	58.506284	?	
Askin granite, Lindome	Zn	U-Pb	SIMS	up.int	1336	+9	10	Austin Högard et al., 2007	S	S	1275950	6389100	12.052950	57.572960	Map	
Orust dyke swarm, Islandsberg dyke	Zn	U-Pb	TIMS	up.int	1362	+9	9	Wein & Samuelsen, 1987	S	S	1241510	6461450	11.407323	58.200730	Map	
Hensmoen, granodioritic gneiss	Zn	U-Pb	TIMS	up.int	1457	+6	11	Bingen et al., 2008b	N	S	32	6678100	10.15217	60.234078	Map	
Brenvik gneiss	Zn	U-Pb	ICPMS	conc	1495	+11	14	Nordgulen & Skår, 2004	N	S	32	6618500	10.654880	59.694050	Map	
Brevik gabbro	Zn	U-Pb	TIMS	up.int	1498	+14	12	Ahäll & Connelly, 1998	S	S	1250620	6438970	11.585710	58.004684	Map	
Stigfjordens granite	Zn	U-Pb	TIMS	up.int	1502	+2	3	Ahäll & Connelly, 1998	S	S	1250620	6440010	11.585626	58.014030	Map	
Norstrand-Sermak granodiorite	Zn	U-Pb	ICPMS	up.int	1503	+3	2	Andersen et al., 2004a	N	S	32	6603400	10.841214	58.072370	Map	
Stenusund granodiorite, Kopper sample, Hisingen suite	Zn	U-Pb	TIMS	up.int	1507	+12	10	Ahäll, 1991	S	S	1265900	6445700	11.902760	58.075306	Map	
Hisingen suite, Hallungen granodiorite	Zn	U-Pb	TIMS	up.int	1520	+6	6	Ahäll & Connelly, 2008	S	S	1284500	6540700	12.061690	58.933790	Map	
Lane granite	Zn	U-Pb	TIMS	up.int	1530	+18	28	Wein et al., 1982	S	S	33	327700	6476600	12.051841	58.936214	ca.
Stenusund tonalite, Saveröd sample, Hisingen suite	Zn	U-Pb	TIMS	up.int	1535	+28	13	Ahäll, 1991	N	S	32	6439000	11.844479	58.004298	Map	
Granodioritic gneiss	Zn	U-Pb	ICPMS	up.int	1537	+13	13	Nordgulen & Skår, 2004	N	S	32	6018500	10.813070	59.760670	Map	
Koster segment, Hisingen suite, Segeskären gabbro	Zn	U-Pb	SIMS	up.int	1538	+7	18	Ahäll & Connelly, 2008	S	S	1221200	6527300	10.982840	58.777499	Map	
Koster segment, Hisingen suite, Nord-Koster diorite	Zn	U-Pb	SIMS	up.int	1538	+9	7	Ahäll & Connelly, 2008	S	S	1222800	6540300	10.994270	58.894823	Map	
Hisingen suite, Uddevalla granodiorite	Zn	U-Pb	SIMS	up.int	1539	+10	10	Ahäll & Connelly, 2008	S	S	1274500	6478300	11.980650	58.369748	Map	
Koster segment, Hisingen suite, Bot granite	Zn	U-Pb	SIMS	up.int	1539	+11	11	Ahäll & Connelly, 2008	S	S	1274500	6506600	11.049538	58.593853	Map	
Fine-grained granitic gneiss	Zn	U-Pb	ICPMS	up.int	1541	+22	22	Nordgulen & Skår, 2004	N	S	32	590850	10.619240	59.802270	Map	
Koster segment, Hisingen suite, Måskår granite	Zn	U-Pb	TIMS	up.int	1542	+22	22	Nordgulen & Skår, 2004	N	S	32	590850	10.619240	59.802270	Map	
Ranrike granodiorite, East	Zn	U-Pb	SIMS	up.int	1545	+4	5	Ahäll & Connelly, 2008	S	S	1236600	6506600	11.026794	58.596187	Map	
Halleviksstrand gabbro	Zn	U-Pb	SIMS	up.int	1546	+4	4	Ahäll & Connelly, 2008	S	S	1236600	6506600	11.026794	58.596187	Map	
Hisingen suite, Bjfors granodiorite	Zn	U-Pb	SIMS	up.int	1547	+7	8	Claesson in Ahäll & Connelly, 2000	S	S	1243200	6452100	11.446250	58.118009	Map	
Biolite tonalitic gneiss	Zn	U-Pb	SIMS	?	1547	+6	2	Ahäll & Connelly, 2008	S	S	1272800	6399600	11.997430	57.663864	Map	
Ranrike granodiorite, West	Zn	U-Pb	ICPMS	up.int	1548	+22	22	Nordgulen & Skår, 2004	N	S	32	603000	10.837060	59.824550	Map	
Rosskar felsic dyke	Zn	U-Pb	TIMS	up.int	1550	+9/-5	2	Ahäll & Connelly, 2008	S	S	1233800	6507700	11.223086	58.610059	Map	
Follum diorite, tonalite pluton, metatonalite, Homefoss	Zn	U-Pb	TIMS	up.int	1553	+2	2	Connelly & Ahäll, 1996	S	S	1253600	6417200	11.568540	57.811396	Map	
Hällö diorite, Büro	Zn	U-Pb	TIMS	up.int	1555	+2	3	Bingen et al., 2005b	N	S	32	568300	6673000	10.231551	60.198130	Map
Rivfjordens layered gabbro	Zn	U-Pb	TIMS	up.int	1555	+2	2	Connelly & Ahäll, 1996	S	S	1251300	6409500	11.627938	57.741174	Map	
Hisingen suite, Landvetter granodiorite	Zn	U-Pb	TIMS	up.int	1555	+2	2	Ahäll et al., 2000	S	S	1261800	6400700	11.812498	57.666040	Map	
Foro granite dyke	Zn	U-Pb	TIMS	up.int	1558	+10	10	Ahäll et al., 2000	S	S	1291000	6399300	11.851300	57.669982	Map	
Bäckspårgården granodiorite	Zn	U-Pb	TIMS	up.int	1558	+2	2	Ahäll et al., 2000	S	S	1268800	6405000	11.891925	57.709174	Map	
Neisic granodiorite, Sönerbergen, Onsala peninsula	Zn	U-Pb	TIMS	up.int	1559	+2	2	Ahäll et al., 2000	S	S	1291700	6627700	12.102519	59.716713	Map	
Gosta granite	Zn	U-Pb	SIMS	conc	1561	+6	6	Helstrom et al., 2007b	S	S	1267805	6367066	11.944904	57.369862	Map	
Hisingen granite, Ryv granodiorite	Zn	U-Pb	TIMS	up.int	1563	+32/-21	32	Persson et al., 1983	S	S	33	386400	6550500	13.017998	57.369862	ca.
Hisingen suite, Lane granite	Zn	U-Pb	SIMS	up.int	1563	+2	2	Ahäll et al., 2000	S	S	1265900	6403700	11.878126	57.697061	Map	
Midskog tonalite	Zn	U-Pb	ICPMS	up.int	1566	+3	3	Ahäll & Connelly, 2008	S	S	1280300	6481200	12.046777	58.398670	Map	
Fåring quartz diorite	Zn	U-Pb	ICPMS	up.int	1567	+8	8	Andersen et al., 2004a	N	S	32	627800	6639100	11.282568	59.869680	Map
Gabbro, Isle of Roön, W. of Onsala peninsula	Zn	U-Pb	ICPMS	up.int	1570	+7	7	Ahäll & Connelly, 2008	S	S	1269200	6422400	11.915335	57.866282	Map	
Hisingen suite, Ytterby granodiorite	Zn	U-Pb	ICPMS	up.int	1574	+17	17	Andersen et al., 2008b	N	S	32	610500	6642300	10.975517	59.903386	Map
Fåring quartz diorite	Zn	U-Pb	ICPMS	207/206	1577	+5	5	Helstrom et al., 2008a	S	S	1261179	6371314	11.829151	57.420795	GPS	
Hisingen suite, Eggjö granodiorite	Zn	U-Pb	SIMS	up.int	1578	+7	7	Ahäll & Connelly, 2008	S	S	1298600	6370000	12.453400	57.410870	Map	
Granitic augen gneiss, Svängelhallar-Fjärehtals, Onsala Peninsula	Zn	U-Pb	SIMS	207/206	1582	+8	8	Helstrom et al., 2008a	S	S	1267106	6371403	11.929208	57.4093860	GPS	
Idala tonalite	Zn	U-Pb	TIMS	up.int	1584	+15	15	Ahäll et al., 1995	S	S	1297600	6367500	12.438652	57.387957	Map	
Gabbro, granitic contact melt	Zn	U-Pb	SIMS	conc	1585	+4	4	Ahäll et al., 2006	S	S	12976200	6401600	12.052426	57.683484	Map	
Björkelungen granodiorite	Zn	U-Pb	ICPMS	up.int	1585	+18	18	Andersen et al., 2004a	N	S	32	641700	6634300	11.527293	59.822087	Map
Migmatitic banded gneiss, Bua	Zn	U-Pb	SIMS	up.int	1585	+11	11	Andersson et al., 2002	S	S	1277500	6350500	12.120591	57.226253	Map	
Romnang tonalite	Zn	U-Pb	TIMS	up.int	1587	+3	3	Connelly & Ahäll, 1996	S	S	1250700	6431700	11.594718	57.839632	Map	
Uddevalla granodiorite	Zn	U-Pb	TIMS	up.int	1587	+36	36	Wein et al., 1982	S	S	33	330700	6470400	12.107654	58.341770	ca.
Stenyrka granite	Zn	U-Pb	TIMS	up.int	1588	+5	5	Connelly & Ahäll, 1996	S	S	1263000	6439600	11.625200	58.011653	Map	
Red syeno-granite gneiss, Lake Racken	Zn	U-Pb	TIMS	207/206	1590	+14	14	Larson et al., 1999	S	S	33	367400	6623400	12.641755	59.127308	ca.
Granitic gneiss, Vestre Bjønvatnet	Zn	U-Pb	ICPMS	Conc	1592	+10	10	Lamminen et al., 2011	N	S	32	6711900	6711900	10.128740	60.539220	GPS
Tocksfors granodiorite	Zn	U-Pb	TIMS	up.int	1594	+7	7	Ahäll & Connelly, 2008	S	S	1275800	6604900	11.844790	59.504285	Map	
Härnsås granodiorite gneiss	Zn	U-Pb	TIMS	up.int	1595	+24/-17	24	Alm et al., 2002	S	S	33	343100	6671600	12.48226	59.254227	ca.
Grey quartz monzodiorite gneiss, Lake Racken	Zn	U-Pb	TIMS	207/206	1596	+11	11	Larson et al., 1999	S	S	33	367400	6623400	12.641755	59.127308	ca.
Tisteda granodiorite	Zn	U-Pb	ICPMS	up.int	1599	+15/+16	16	Andersson et al., 2004a	N	S	32	644000	6557800	11.516647	59.135002	Map
Galaborg suite, Amal granodiorite	Zn	U-Pb	SIMS	up.int	1599	+6	6	Ahäll & Connelly, 2008	S	S	1221800	6554200	10.995932	59.018514	Map	
Galaborg suite, Hale tonalite	Zn	U-Pb	SIMS	up.int	1602	+10	10	Ahäll & Connelly, 2008	S	S	1284900	6478000	12.274875	58.390083	Map	
Lerum granite	Zn	U-Pb	TIMS	up.int	1603	+4	4	Wein & Samuelsen, 1987	S	S	1289890	6495000	12.214650	57.608176	Map	
Migmatitic granodiorite, Stora Lundby, mesosome	Zn	U-Pb	SIMS	207/206	1605	+9	9	Schersten et al., 2004	S	S	1291500	6416350	12.024644	57.823016	Map	
Granodioritic gneiss, Östre-Tolen, Vindflomyra	Zn	U-Pb	SIMS	up.int	1605	+10	10	Ahäll & Connelly, 2008	S	S	1274500	6400900	12.024644	57.676385	Map	
Galaborg suite, Kll tonalite	Zn	U-Pb	TIMS	207/206	1606	+4	4	Bingen et al., 2005b	N	S	32	595600	6710900	10.741634	60.522786	Map
Galaborg suite, Fryksdalsgränd orthogneiss	Zn	U-Pb	TIMS	207/206	1607	+4	4	Ahäll & Connelly, 2008	S	S	1355300	6599800	13.250503	59.493530	Map	
Höjen tonalite	Zn	U-Pb	TIMS	up.int	1608	+4	4	Ahäll & Connelly, 2008	S	S	1346600	6622700	13.080520	59.695164	Map	
Dejlsjön augen gneiss, Landvetter Badplats	Zn	U-Pb	TIMS	up.int	1609	+35/-25	35	Persson et al., 1983	S	S	33	329200	6574600	13.119483	59.296683	ca.
Amal Fm. Tosse porphyry	Zn	U-Pb	SIMS	conc	1614	+5	5	Ahlin et al., 2006	S	S	1301500	6400700	12.20122	57.679750	Map	
Stemmesad metarhyolite	Zn	U-Pb	TIMS	up.int	1614	+7	7	Lundqvist & Skold, 1993	S	S	131400	6542600	12.613170	58.965660	Map	
Gneissic granite, Västmantorp, St. Melby	Zn	U-Pb	ICPMS	up.int	1615	+31	31	Helstrom et al., 200								

- Ahali, K.I., Cornell, D.H., and Armstrong, R., 1998. Ion probe zircon dating of metasedimentary units across the Skagerrak: new constraints for early Mesoproterozoic growth of the Baltic Shield. *Precambrian Research*, v. 87, p. 117-134.
- Ahali, K.I., and Schöberg, H., 1999. The 963 Myr intrusion and post-compressional deformation in the Sveconorwegian orogen, SW Sweden. *GFF*, v. 121, p. 101-106.
- Ahali, K.I., Connolly, J.N., and Brewer, T.S., 2000. Epidote-capped magmatism due to distal orogenesis? Correlation of 1.69–1.50 Ga orogenic "anorogenic" events in the Baltic shield. *Geology*, v. 28, p. 823-826.
- Ahali, K.I., 2001. Ålderbestämning av svårlärober bergarter i Sydstra Sverige. SKB Svensk Kärnbränslehantering AB. Swedish Nuclear Fuel and Waste Management Co. R-01-60, p. 28.
- Ahali, K.I., and Connolly, J.N., 2008. Long term convergence along SW Fennoscandia. *Precambrian Research*, v. 161, p. 452-474.
- Ahlin, S., Austin Hegardt, E., and Cornell, D., 2006. Nature and stratigraphic position of the 1614 Dalsjön and stratigraphic position of the 1614 Dalsjön and stratigraphic position of the 1614 Dalsjön and stratigraphic position of the 1614 Dalsjön. *GFF*, v. 128, p. 21-32.
- Ahn, E., Sundblad, K., and Schöberg, H., 2002. Geochemistry and age of two orthogneisses in the Proterozoic Mjösa-Väneren or district, southwestern Scandinavia. *GFF*, v. 124, p. 45-61.
- Andersen, T., 1997. Radiogenic isotope systematics of the Herfoss granite, South Norway: an indicator of Sveconorwegian (Grenvillian) crustal evolution in the Baltic shield. *Chemical Geology*, v. 135, p. 139-158.
- Andersen, T., Andersen, A., and Sylvester, A.G., 2002a. Timing of late- to post-tectonic Sveconorwegian granitic magmatism in South Norway: Norges geologiske undersøkelse Bulletin, v. 440, p. 19-26.
- Andersen, T., Sylvester, A.G., and Sylvester, A.G., 2002b. Age and petrogenesis of the Tim granite, Telemark, South Norway, and its geochemical relationship to metarhyolite of the Rjukan group. *Precambrian Research*, v. 119, p. 289-318.
- Andersen, T., Lafljak, K., and Sæed, A., 2004b. Age, provenance and tectonostratigraphic status of the Mesoproterozoic Blefjell quartzite, Telemark sector, southern Norway. *Precambrian Research*, v. 135, p. 217-244.
- Andersen, T., Griffin, W.L., and Sylvester, A.G., 2007a. Timing and tectonic significance of Sveconorwegian A-type granitic magmatism in Telemark, southern Norway: new results from laser-ablation (CPMS U-Pb) dating of zircon. *Norges Geologiske Undersøkelse Bulletin*, v. 447, p. 17-31.
- Andersen, T., Griffin, W.L., and Sylvester, A.G., 2007b. Sveconorwegian crustal unroofing in southwestern Fennoscandia: LAM-CPMS U-Pb and Lu-Hf isotope evidence from granites and gneisses in Telemark, southern Norway. *Lithos*, v. 93, p. 273-287.
- Andersen, T., Söderlund, U.B., Graham, S., and Smonsen, S.L., 2009. Granitic magmatism by melting of juvenile continental crust: new constraints on the source of Palaeoproterozoic granitoids in Fennoscandia from Hf isotopes in zircon. *Journal of Metamorphic Geology*, v. 27, p. 233-247.
- Andersen, J., Söderlund, U., Cornell, D., Johansson, L., and Möller, C., 1999. Sveconorwegian (Grenvillian) deformation, metamorphism and leucosome formation in SW Sweden. *SW Baltic Shield: constraints from a Mesoproterozoic granite intrusion: Precambrian Research*, v. 98, p. 151-171.
- Andersson, J., 2001. Sveconorwegian orogenesis in the southwestern Baltic Shield. *Zircon geochronology and tectonostratigraphic setting of orthogneisses in SW Sweden*. [Doctoral thesis]. Lund, Lund University.
- Andersson, J., Möller, C., and Johansson, L., 2002. Zircon chronology of migmatite, zircon geochronology and tectonostratigraphic setting of orthogneisses in the Baltic Shield. *Precambrian Research*, v. 114, p. 121-147.
- Andersson, P. G. Gee, D. G. Whitehouse, M. J., and Schöberg, H., 2003. Subduction-flip during Lapetus Ocean closure and Baltica-Laurentia collision, Scandinavian Caledonides. *Terra Nova*, v. 15, p. 362-369.
- Appelquist, K., Cornell, D., and Brander, L., 2008. Age: tectonic setting and petrogenesis of the Habbu Volcanic Suite. Evidence for an active continental margin setting for the Transscandinavian Igneous Belt. *GFF*, v. 130, p. 123-138.
- Arctack, H., Anderson, U.B., and Pettersson, J., 2008. Petrological evidence for crustal melting, unmixing, and underflowing in an alkali-calcic, high-level intrusion: the late Sveconorwegian Vinga intrusion. *SW Sweden: Mineralogy and Petrology*, v. 93, p. 1-46.
- Aucland, L.E., Anderson, A., Corti, F., Smonsen, S.L., and Andersen, T., 2012. The Belam Nappe Complex: a record of Laurentian Early Silurian arc magmatism in the Uppermost Allocthon, Scandinavian Caledonides. *Lithos*, v. 146-147, p. 235-252.
- Austin Hegardt, E., Cornell, D.H., Claesson, L., Simakov, S., Stein, H.J., and Hannah, J.L., 2005. Eclogites in the central part of the Sveconorwegian Eastern Segment of the Baltic Shield: support for an extensive eclogite terrane. *GFF*, v. 129, p. 227-234.
- Austin Hegardt, E., Cornell, D.H., Hellström, F.A., and Lundqvist, I., 2007. Replacement ages of the mid-Proterozoic Kungsbacka Bimodal Suite. *SW Sweden: GFF*, v. 129, p. 227-234.
- Austrheim, H., Corfu, F., Bryhni, I., and Andersen, T.B., 2003. The Proterozoic Husted Igneous complex, a low-strain enclave with a key to the history of the Western Gneiss Region of Norway. *Precambrian Research*, v. 120, p. 149-175.
- Barnes, C.G., Frost, C.D., Yoshinobu, A.S., McArthur, K., Barnes, M.A., Allen, C.M., Nordgulen, Ø., and Prestvik, T., 2007. Timing of sedimentation, metamorphism, and plutonism in the Heigeland Nappe Complex, north-central Norwegian Caledonides: Geosphere, v. 3, p. 683-703.
- Barnes, C.G., Reid, K., Frost, C.D., Barnes, M.A., Allen, C.M., and Yoshinobu, A.S., 2011. Ordovician and Silurian magmatism in the Upper Nappe, Uppermost Allocthon, Helgeland Nappe Complex, north-central Norway. *Journal of Geology*, v. 91, p. 121-136.
- Bergh, S.G., Kullerød, K., Corfu, F., Armitage, P.E.B., Davidsen, B., Johansen, H.W., Pettersen, T., and Knudsen, S., 2007. Low-grade sedimentary rocks on Varna, North Norway: a new occurrence of a Palaeoproterozoic (2.4-2.2 Ga) cover succession in northern Fennoscandia. *Norwegian Journal of Geology*, v. 87, p. 301-318.
- Berglund, J., 1997. Mid-Proterozoic evolution in south-western Sweden. Göteborg, PhD thesis, Publication A15, Department of Geology, Earth Science Centre, Göteborg University.
- Bingen, B., Demaffie, D., and van Breemen, O., 1998. The 616 Ma old Egersund basaltic dike swarm, SW Norway, and late Neoproterozoic opening of lapetus ocean. *The Journal of Geology*, v. 106, p. 565-574.
- Bingen, B., and van Breemen, O., 1998. U-Pb monazite ages in amphibolite- to granulite-facies orthogneisses reflect hydrous mineral breakdown reactions: Sveconorwegian Province of SW Norway. *Contributions to Mineralogy and Petrology*, v. 132, p. 336-353.
- Bingen, B., Birkeland, A., Nordgulen, Ø., and Sigmond, E.M.O., 2001a. Correlation of supracrustal sequences and origin of terranes in the Sveconorwegian orogen of SW Scandinavia. SIMS data on zircon in classic metasediments: *Precambrian Research*, v. 108, p. 293-318.
- Bingen, B., Davis, W.J., and Austrheim, H., 2001b. Zircon U-Pb geochronology in the Bergen Arc schist and their Proterozoic protoliths, and implications for the pre-Scandinavian evolution of the Caledonides in western Norway. *Geological Society of America Bulletin*, v. 113, p. 640-649.
- Bingen, B., Mansteid, J., Sigmond, E.M.O., and Stein, H.J., 2002. Baltica-Laurentia link, during the Mesoproterozoic: 1.27 Ga development of continental basins in the Sveconorwegian orogen, southern Norway. *Canadian Journal of Earth Sciences*, v. 39, p. 1425-1440.
- Bingen, B., and Stein, H.J., 2003. Molybdenite Re-Os dating of brittle dehydration melting in the Rogaland high-temperature granulites, S Norway: Earth and Planetary Science Letters, v. 208, p. 181-195.
- Bingen, B., Griffin, W.L., Torvik, T.H., and Sæed, A., 2005. Timing of Late Neoproterozoic glaciation on Baltica constrained by detrital zircon geochronology in the Hedmark Group, south-east Norway. *Terra Nova*, v. 17, p. 250-258.
- Bingen, B., and Stein, H.J., 2003. Molybdenite Re-Os dating of brittle dehydration melting in the Rogaland high-temperature granulites, S Norway: Earth and Planetary Science Letters, v. 208, p. 181-195.
- Bingen, B., Skår, Ø., Marker, M., Sigmond, E.M.O., Nordgulen, Ø., Ragnhildstveit, J., Månstedt, J., Tucker, R.D., and Liegeois, J.P., 2005. Timing of continental building in the Sveconorwegian orogen, SW Scandinavia: Norwegian Journal of Geology, v. 85, p. 87-116.
- Bingen, B., Stein, H.J., Bogerts, M., Belle, O., and Mansteid, J., 2006. Molybdenite Re-Os dating constraints on the Sveconorwegian orogen. *SW Scandinavia: Norwegian Journal of Geology*, v. 88, p. 43-72.
- Bingen, B., Andersen, J., Söderlund, U., and Möller, C., 2008a. The Mesoproterozoic of high-grade metamorphism in the Sveconorwegian belt, S Norway: U-Pb, Th-Pb and Re-Os data. *Norwegian Journal of Geology*, v. 88, p. 13-42.
- Bingen, B., Davis, W.J., Hamilton, M.A., Engvik, A., Stein, H.J., Skår, Ø., and Nordgulen, Ø., 2008b. Geochronology of high-grade metamorphism in the Sveconorwegian orogen. *Norwegian Journal of Geology*, v. 88, p. 43-72.
- Bjerkedal, T., and Bjørlykke, A., 1994. Geology of the Follid area, southern Trondhjem Region, Caledonides. Norway: *Norges Geologiske Undersøkelse Bulletin*, v. 426, p. 53-75.
- Brander, L., and Söderlund, U., 2009. Mesoproterozoic (1.47-1.44 Ga) orogenic magmatism in Fennoscandia: baddeleyite U-Pb dating of a suite of massif-type anorthositic in SW Sweden. *International Journal of Earth Sciences*, v. 98, p. 499-516.
- Brander, L., Appelquist, K., Cornell, D., and Anderson, S.A., 1996. Age and metamorphic evolution of granulites in the central Eastern Segment, southern Sweden. *International Geology Review*, v. in press.
- Brewer, T.S., Ahali, K.I., Menzies, J.F., Storey, C.D., and Parrish, R.R., 2004. Mesoproterozoic bimodal volcanism in SW Norway: evidence for recurring pre-Sveconorwegian continental margin tectonism. *Precambrian Research*, v. 148, p. 632-643.
- Braadsgaard, H., Chaplin, C., and Griffin, W.L., 1984. Geochronology of the Gjesherha pegmatite, Froland, southern Norway. *Norsk Geologisk Tidsskrift*, v. 64, p. 111-119.
- Ceýys, A., Bogdanova, S., Janson, C., and Blitkova, E., and Kornat, K.-A., 2002. The Stenshuvud and Tagnasa granulites: new representative of Mesoproterozoic magmatism in southern Sweden. *GFF*, v. 124, p. 149-162.
- Christoffer, C.A., Connolly, J.N., and Ahali, K.I., 1999. Timing and characterization of recurrent pre-Sveconorwegian metamorphism and deformation in the Varberg-Halmstad region of SW Sweden. *Precambrian Research*, v. 98, p. 173-195.
- Claesson, D.T., 1999. Geochronology of the Rymmen gabbro, southern Sweden: implications for primary versus inherited zircon in mafic rocks and rheomorphic dykes. *GFF*, v. 121, p. 25-31.
- Claesson, S., 1980. A Rb-Sr isotope study of granulites and related mylonites in the Tamsås Auger Gneiss Nappe, southern Swedish Caledonides. *Geologiska Föreningens i Stockholm Förhandlingar*, v. 102, p. 403-420.
- Claesson, S., Klingspor, I., and Stephens, M.B., 1983. U-Pb and Rb-Sr isotopic data on Ordovician volcanic-subvolcanic complex from the Jopås Group, Koll Nappes, Swedish Caledonides: *Geologiska Föreningens i Stockholm Förhandlingar*, v. 105, p. 9-15.
- Claesson, S., 1987. Isotopic evidence for the Precambrian provenance and metamorphism of high grade paragneisses from the Svea Nappes, Scandinavian Caledonides. 1. conventional U-Pb zircon and Sm-Nd whole rock data. *Contributions to Mineralogy and Petrology*, v. 97, p. 196-204.
- Claesson, S., Stephens, M.B., and Klingspor, I., 1988. U-Pb zircon dating of felsic intrusions, Middle Koll Nappes, central Scandinavian Caledonides. *Norsk Geologisk Tidsskrift*, v. 68, p. 89-97.
- Connolly, J.N., and Ahali, K.I., 1996. The Mesoproterozoic cratonization of Baltica – new age constraints from SW Sweden. *In*: Brewer, T.S., ed., *Precambrian crustal evolution in the North Atlantic Region*, Volume 112. Geological Society, London. Special Publications, p. 261-273.
- Corfu, F., 1980. U-Pb and Rb-Sr systematics in a poly-orogenic segment of the Eastern Segment of southwestern Sweden: tectonic constraints from U-Pb geochronology. *Lithos*, v. 13, p. 305-323.
- Corfu, F., and Emmett, T., 1992. U-Pb age of the Leiningsmyran gabbroic complex, Jotun Nappe, southern Norway. *Norsk Geologisk Tidsskrift*, v. 72, p. 369-374.
- Corfu, F., and Andersen, T.B., 2002. U-Pb ages of the Dalsfjord Complex, SW Norway, and their bearing on the correlation of albitronous crystalline segments of the Scandinavian Caledonides. *International Journal of Earth Sciences*, v. 91, p. 955-963.
- Corfu, F., Armitage, P.E.B., Kullerød, K., and Bergh, S.G., 2003a. Preliminary U-Pb geochronology in the West Troms Basement Complex, North Norway: Archaean and Paleoproterozoic events and younger overprints. *Norges Geologiske Undersøkelse Bulletin*, v. 441, p. 61-72.
- Corfu, F., Ravna, E.J.K., and Kullerød, K., 2003b. A Late Ordovician U-Pb age for the Troms Nappes eclogites, Uppermost Allocthon of the Scandinavian Caledonides: *Contributions to Mineralogy and Petrology*, v. 145, p. 502-513.
- Corfu, F., 2004. U-Pb age, setting and tectonic significance of the anorthositic-margaretite-chromite-granite suite, Lofoten-Vesterålen, Norway. *Journal of Petrology*, v. 45, p. 1799-1819.
- Corfu, F., Torvik, T.H., Andersen, T.B., Ashwal, L.D., Ramsay, D.M., and Roberts, R.J., 2006. Early Silurian mafic-ultramafic and granitic plutonism in continental orogens: implications for the paleogeographic framework of the Scandinavian Caledonides. *American Journal of Science*, v. 307, p. 434-458.
- Corfu, F., Roberts, R.J., Torvik, T.H., Ashwal, L.D., and Ramsay, D.M., 2007. Peri-gondwanan elements in the Caledonian nappes of Finnmark, northern Norway: implications for the paleogeographic framework of the Scandinavian Caledonides. *American Journal of Science*, v. 307, p. 434-458.
- Corfu, F., and Dahlgren, S., 2008. Proterozoic U-Pb ages and the Pb isotopic composition of alkaline magmatism initiating the Permian-Carboniferous Oslo Rift: Earth and Planetary Science Letters, v. 265, p. 256-269.
- Corfu, F., and Laajoki, K., 2008. An uncommon episode of mafic magmatism at 1347 Ma in the Mesoproterozoic Telemark supracrustals, Sveconorwegian orogen - Implications for stratigraphy and tectonic evolution. *Precambrian Research*, v. 160, p. 299-307.
- Corfu, F., Gerber, M., Andersen, T.B., Torvik, T.H., and Ashwal, L.D., 2011. Age and significance of Grenvillian and Silurian orogenic events in the Finnmarkian Caledonides, northern Norway. *Canadian Journal of Earth Sciences*, v. 48, p. 419-440.
- Dahlgren, S., Heaman, L.M., and Krogh, T., 1990a. Abstract. Precise U-Pb zircon and baddeleyite age of the Hesjølund gabbro, central Telemark area, Southern Norway. *Geofytt*, v. 17, p. 38.
- Dahlgren, S., Heaman, L.M., and Krogh, T., 1990b. Abstract. Geological evolution and U-Pb geochronology of the Proterozoic Central Telemark area, Norway. *Geofytt*, v. 17, p. 38-39.
- Dahlgren, S., Corfu, F., and Heaman, L.M., 1998. Abstract. U-Pb isotopic time constraints, and Hf and Pb source characteristics of the Luvik plutonic complex, Oslo paleogeographic region. *Geodynamic and geochemical implications for the rift evolution, V.M. Goldschmidt Conference, Volume 1: Journal of Conference Abstracts, Cambridge Publications*, p. 297-313.
- Dahlgren, S., Brewer, T.S., Corfu, F., and Heaman, L.M., 1998. Sveconorwegian lamproite dikes in the Proterozoic Bamble shear belt, South Norway: Trondhjem, Norges geologiske undersøkelse, internal report, pp. 6.
- de Haas, G.J.L.M., Andersen, T., and Vestin, J., 1999. Detrital zircon geochronology: new evidence for an old model for accretion of the SW Baltic Shield. *Journal of Geology*, v. 107, p. 569-586.
- de Haas, G.J.L.M., Nijland, T., and Corfu, F., 2002. New constraints on the timing of deposition and metamorphism in the Bamble sector, south Norway: zircon and titanite U-Pb data from the Nelaug area. *GFF*, v. 124, p. 73-78.
- Dunning, G.R., and Pedersen, B.B., 1988. U-Pb ages of ophiolites and arc-related plutons of the Norwegian Caledonides: implications for the development of Lapetus. *Contributions to Mineralogy and Petrology*, v. 98, p. 13-23.
- Dunning, G.R., and Greene, T., 2000. U-Pb age dating and paleotectonic significance of trondhjemite from the type locality in the Central Norwegian Caledonides. *Norges geologiske undersøkelse Bulletin*, v. 437, p. 57-65.
- Edle, E.A., Osmundsen, P.T., Meyer, G.B., Kendrick, J.K.A., and Corfu, F., 2002. The Næraa Shear Zone, north-central Norway, an 604M/594M record of Early Devonian - Early Carboniferous ductile extension and unroofing. *Norwegian Journal of Geology*, v. 82, p. 317-339.
- Eliasson, T., and Schöberg, H., 1991. U-Pb dating of the post-kinehmatic Sveconorwegian (Grenvillian) Bohus granite, SW Sweden: evidence of restitic zircon. *Precambrian Research*, v. 51, p. 337-350.

- Elasson, T., Persson, P.O., and Bergström, U., 2008a. U-Pb zircon age of a TiB-1 quartz monzonite from Hyttsejv north-east of Jonköping, south central Sweden, in Hellström, F., ed., Results from radiometric datings and other isotope analyses 2, Volume 2008:27, Sveriges Geologiska Undersökning, Rapport, p. 8-10.
- Elasson, T., Persson, P.O., and Bergström, U., 2008b. U-Pb zircon age of a TiB-1 monzogranite from Bäckadö east of Jonköping, south central Sweden, in Hellström, F., ed., Results from radiometric datings and other isotope analyses 2, Volume 2008:27, Sveriges Geologiska Undersökning, Rapport, p. 11-13.
- Elasson, T., Rimsa, A., Bergström, U., and Hellström, F., 2008d. U-Pb zircon age of a TiB-1 monzogranite from Halvarö south of Jonköping, south central Sweden, in Hellström, F., ed., Results from radiometric datings and other isotope analyses 2, Volume 2008:27, Sveriges Geologiska Undersökning, Rapport, p. 17-18.
- Elasson, T., Rimsa, A., Bergström, U., and Hellström, F., 2008d. U-Pb zircon ion-probe geochronology of a porphyritic rhyolite from the Malmåbak volcanic area south-east of Jonköping, south central Sweden, in Hellström, F., ed., Results from radiometric datings and other isotope analyses 2, Volume 2008:27, Sveriges Geologiska Undersökning, Rapport, p. 14-16.
- Engvik, A.C., Mezger, K., Wortelkamp, S., Bast, R., Corfu, F., Kornelussen, A., Ihlen, P.M., Birgen, B., and Austrheim, H., 2011. Metasomatism of gabbro - mineral replacement and element mobilization during the Sveconorwegian metamorphic event: Journal of Metamorphic Geology, v. 29, p. 399-423.
- Geology, R., Kuhn, A., and Austrheim, H., 2008. Diffusion versus recrystallization processes in Rb-Sr geochronology: isotopic results in eclogite facies rocks, Western Gneiss region, Norway: Geochimica et Cosmochimica Acta, v. 72, p. 506-526.
- Gronow, L.P., and Roberts, D., 2010. Early Ordoevian ages of zircons from felsic rocks and a conglomerate diast, Frostia peninsula, Central Norwegian Caledonides: Norges geologiske undersøkelse Bulletin, v. 450, p. 60-64.
- Hancke, M.J., Tucker, R.D., and Robinson, P., 1995. Abstract. Contrasting U-Pb ages for the Risbergset augen gneiss in the Norwegian Caledonides: getting to the root of the problem: Geological Society of America Abstracts with Programs, v. 27, p. A226
- Hansen, B.T., and Lindh, A., 1991. U-Pb zircon age of the Gorbjörnar syenite in Skane, southern Sweden: Geologiska Föreningens i Stockholm Förhandlingar, v. 113, p. 335-337
- Hartz, E.W., Martin, M.W., Andresen, A., and Anderson, T.B., 2002. Volcanic rocks in the Devonian Solund Basin, Western Norway: large landslides of Silurian (439 Ma) rhyolites: Journal of the Geological Society, London, v. 159, p. 121-128.
- Heaman, L.M., and Smalley, P.C., 1994. A U-Pb study of the Mortheia Complex and associated gneisses, south Norway: implications for disturbed Rb-Sr systems and for the temporal evolution of Mesoproterozoic magmatism in Laurentia: Geochimica et Cosmochimica Acta, v. 58, p. 1899-1911
- Heim, M., Skold, T., and Wolff, F.C., 1996. Geology, geochemistry and age of the Tricolor granite and some other Proterozoic (TIB) granitoids at Trysil, southeast Norway: Norsk Geologisk Tidsskrift, v. 76, p. 45-54.
- Hellström, F.A., Johansson, A., and Larsson, S.A., 2004. Age emplacement of late Sveconorwegian monzogabbro dykes, SW Sweden: Precambrian Research, v. 128, p. 39-55.
- Hellström, F.A., Bergström, U., and Lundqvist, L., 2007a. U-Pb zircon ion-probe geochronology of a gneissic granite in the Median Segment of the eastern Sveconorwegian Province, in Hellström, F.A., and Andersson, J., eds., Results from radiometric datings and other isotope analyses 1, v. 2007:28, Sveriges Geologiska Undersökning, Rapport, p. 12-14.
- Hellström, F.A., Lundqvist, L., and Lundqvist, L., 2007ab. U-Pb zircon ion-probe age of a gneissic granulite from the Onsla peninsula, south-west Sweden, in Hellström, F.A., and Andersson, J., eds., Results from radiometric datings and other isotope analyses 1, v. 2007:28, Sveriges Geologiska Undersökning, Rapport, p. 15-16.
- Hellström, F.A., Rimsa, A., and Lundqvist, L., 2008a. U-Pb zircon age of an augen-bearing gneissic granite from the Onsla peninsula, south-west Sweden, in Hellström, F.A., ed., Results from radiometric datings and other isotope analyses 2, Volume 2008:27, Sveriges Geologiska Undersökning, Rapport, p. 25-26.
- Hellström, F.A., Rimsa, A., Lundqvist, L., and Lundqvist, L., 2008b. U-Pb zircon age of a gabbro from Isle of Rön west of the Onsla peninsula, south-west Sweden, in Hellström, F.A., ed., Results from radiometric datings and other isotope analyses 2, Volume 2008:27, Sveriges Geologiska Undersökning, Rapport, p. 23-24.
- Heinrichson, C.J., Jeremic, N.L., Williams, M.L., and Märan, K., 2008. Understanding geologic processes with xenotime: Composition, chronology, and a protocol for electron probe microanalysis: Chemical Geology, v. 254, p. 133-147.
- Hoggah, K., Jonsson, E., and Sebak, R.S., 2007. Geological relations and U-Pb geochronology of Hyttsejv granites in the Langban-Nordmark area, western Bergslagen, Sweden: GFF, v. 129, p. 43-54.
- Jari, L.G., 2002. U-Pb zircon ages of granulites from Småland-Värmland granite-porphry belt, southern and central Sweden: Geologiska Föreningens i Stockholm Förhandlingar, v. 110, p. 21-28.
- Johansson, L., and Andreasson, P.G., and Schoberg, H., 1987. An occurrence of the Gule Nappe in the Western Gneiss Region, central Scandinavian Caledonides: Norsk Geologisk Tidsskrift, v. 67, p. 85-92.
- Johansson, L., Schoberg, H., and Sjölym, Z., 1993. The age and regional correlation of the Svecofennian Geitfjell granite, Västerranden, Norway: Norsk Geologisk Tidsskrift, v. 73, p. 133-143.
- Johansson, A., Meier, M., Oberli, F., and Wilkman, H., 1993. The early evolution of the Southwest Swedish Gneiss Province: geochronological and isotopic evidence from southernmost Sweden: Precambrian Research, v. 64, p. 361-388.
- Johansson, A., Bogdanova, S., and Ceys, A., 2006. A revised geochronology for the Blekinge Province, southern Sweden: GFF, v. 128, p. 287-302.
- Kiel, H.M., Cornell, D.H., and Whitehouse, M.J., 2003. Early Silurian magmatism and the Scandinavian evolution of the Kalak Nappe Complex, Finnmark, Arctic Norway: Journal of the Geological Society, London, v. 162, p. 985-1003.
- Kirkland, C.L., Daly, J.S., and Whitehouse, M.J., 2007. Provenance magmatism of Grenvillian and late Neoproterozoic age in Finnmark, Arctic Norway - Constraining pre-Scandinavian deformation in the Kalak Nappe Complex: Precambrian Research, v. 145, p. 24-52.
- Kirkland, C.L., Daly, J.S., and Whitehouse, M.J., 2007. Granitic magmatism of Grenvillian and late Neoproterozoic age in Finnmark, Arctic Norway - Implications for geochronology and tectonics: The Journal of Geology, v. 115, p. 21-41.
- Kirkland, C.L., Daly, J.S., and Whitehouse, M.J., 2007. Provenance and terrane evolution of the Kalak Nappe Complex, Norwegian Caledonides: from a texturally and structurally-constrained multi-isotopic (Ar-Ar, Rb-Sr, Sm-Nd, U-Pb) study: American Journal of Science, v. 307, p. 459-526.
- Kirkland, C.L., Daly, J.S., Elds, E., and Whitehouse, M.J., 2007. Tectonic evolution of the Arctic Norwegian Caledonides from a texturally and structurally-constrained multi-isotopic (Ar-Ar, Rb-Sr, Sm-Nd, U-Pb) study: American Journal of Science, v. 307, p. 459-526.
- Knutson, T.L., Anderson, T., Whitehouse, M.J., and Vestin, J., 1997. Detrital zircon ages from southern Norway - implications for the Proterozoic evolution of the southwestern Baltic Shield: Contributions to Mineralogy and Petrology, v. 160, p. 245-276.
- Knutson, T.L., and Andersson, T., 1999. Petrology and geochemistry of the Troms gneiss complex, and Sullu, A., 1985. Rb-Sr and Sm-Nd isotopic dates from Precambrian rocks of Finnmark: Norges Geologiske Undersøkelse, v. 403, p. 37-54.
- Krogh, T.E., Berg, S., Lindahl, I., Meares, R.W., O'Brien, M., and Sorell, A., 1985. Rb-Sr and Sm-Nd isotopic dates from Precambrian rocks of Finnmark: Norges Geologiske Undersøkelse, v. 403, p. 37-54.
- Kullerød, L., and Machado, N., 1991. Abstract. End of a controversy: U-Pb geochronological evidence for eclogites from the Scandian Orogen, northern Western Gneiss Region, Norway. Terra Abstracts, supplement to Terra Nova, v. 3, p. 504.
- Kullerød, L., Skjelvie, K.P., Corfu, F., and de la Rosa, J.D., 2006. The 2.40 Ga Ringössjö mafic dykes, West Troms basement complex, Norway: The concluding act of early Paleoproterozoic continental breakup: Precambrian Research, v. 150, p. 183-200.
- Lamminen, J., Andersen, T., and Nystuen, J.P., 2011. Zircon U-Pb ages and Lu-Hf isotopes from basement rocks associated with Neoproterozoic sedimentary successions in the Sparagmite Region and adjacent areas, South Norway: the crustal architecture of western Baltica: Norwegian Journal of Geology, v. 91, p. 35-55
- Larsen, R.B., Walker, N., Birkeland, A., and Bjerkgård, T., 1995. Fluorine-rich biotites and alkali-metasomatism as guided to massive sulphide deposits: an example from the Bleikvassil Zn-Pb-Ah-(Cu) deposit, Norway: Geological Survey of Norway, Report, v. 95.152, p. 1-16.
- Larsen, Ø., Skår, Ø., and Pedersen, R.B., 2002. U-Pb zircon and titanite geochronological constraints on the late- / post-Caledonian evolution of the Scandinavian Caledonides in north-central Norway: Norwegian Journal of Geology, v. 82, p. 1-13.
- Larsson, S.A., Cornell, D.H., and Armstrong, R.A., 1999. Emplacement ages and metamorphic overprinting of granulites in the Sveconorwegian Province in Värmland, Sweden - an ion probe study: Norsk Geologisk Tidsskrift, v. 79, p. 87-96.
- Larsson, D., and Söderlund, U., 2005. Lu-Hf apatite geochronology of mafic cumulates: an example from a Fe-Ti mineralization at Smålands Taberg, southern Sweden: Precambrian Research, v. 224, p. 201-211.
- Levchenkov, O.A., Levsyky, L.K., Nordquell, P., Dobzhinskaya, I.F., Veitv, V.R., Cobbing, J., Nilsson, L.P., and Sturt, B.A., 1993. U-Pb zircon age from Saravanger, Norway, and the western part of the Kola Peninsula, Russia, in Roberts, D., and Nordgulen, Ø., eds., Geology of the eastern Finnmark - western Kola Peninsula region, Norges Geologiske Undersøkelse Special Publication No. 7, Trondheim, p. 29-47.
- Lindh, A.G., Schöberg, H., and Annett, K., 1994. Disturbed radiometric ages and their bearing on interregional correlations in the SW Baltic Shield: Lithos, v. 31, p. 65-79.
- Lindh, A.G., Schöberg, H., and Annett, K., 1994. Disturbed radiometric ages and their bearing on interregional correlations in the SW Baltic Shield: Lithos, v. 31, p. 65-79.
- Lindh, A.G., 1996. The age of the Hånefjella granite - its significance for interpreting the terranes of the southern Baltic Shield: GFF, v. 118, p. 163-168.
- Lundmark, A.M., and Corfu, F., 2007. Age and origin of the Aardal dike complex, SW Norway: False isotochs, incomplete mixing, and the origin of Caledonian granites in basement nappes: Tectonics, v. 26, p. TC2007.1-13, doi:10.1029/2005TC001844.
- Lundmark, A.M., Corfu, F., Spurgin, S., and Seibek, R., 2007. Proterozoic evolution and provenance of the High-grade Jotun Nappe Complex, SW Norway: U-Pb geochronology: Precambrian Research, v. 159, p. 133-154.
- Lundqvist, L., and Persson, P.-O., 1999. Geochronology of porphyries and related rocks in northern and western Dalarna, south-central Sweden: GFF, v. 121, p. 307-322.
- Lundqvist, L., and Skold, T., 1992. Preliminary age-dating of the Anar Formation, SW Sweden: Geologiska Föreningens i Stockholm Förhandlingar, v. 114, p. 461-462.
- Laajoki, K., Corfu, F., and Andersen, T., 2002. Lithostratigraphy and U-Pb geochronology of the Telemark supracrustals in the Bandoak-Sauland area, Telemark, South Norway: Norwegian Journal of Geology, v. 82, p. 119-138.
- Laajoki, K., and Corfu, F., 2007. Lithostratigraphy of the Mesoproterozoic Vamork formation, central Telemark, Norway: Bulletin of the Geological Society of Finland, v. 79, p. 41-67.
- Mansfeld, J., 2000. Abstract. 200 my. of episodic crustal growth in the Østfold-Akershus sector, SE Norway, 24 Nordiske Geologiske Vintermøter, 6-9 Jan 2000: Trondheim, Norwegian Geological Society, Geonytt, p. 115.
- Meyer, G.B., Grenne, T., and Pedersen, R.B., 2003. Age and tectonic setting of the Mesåa Batholith: implications for Ordovician arc development in the Caledonides of Central Norway: Geological Magazine, v. 140, p. 573-594.
- Møller, A., Fanning, M., and Wilner, P., 2008. Provenance characteristics of Scandinavian basement terrains: Constraints from detrital zircon ages in modern river sediments: Sedimentary Geology, v. 210, p. 61-85.
- Worler, C., and Söderlund, U., 1997. Age constraints on the regional deformation within the Eastern Segment, S Sweden: Late Sveconorwegian granite dyke intrusion and metamorphic deformational relations: GFF, v. 119, p. 1-12
- Wøller, A., O'Brien, P.J., Kennedy, A., and Kröner, A., 2002. Polyphase zircon in ultrahigh-temperature granulites (Rogaland, SW Norway): constraints for Pb diffusion in zircon: Journal of Metamorphic Geology, v. 20, p. 727-740.
- Wøller, A., O'Brien, P.J., Kennedy, A., and Kröner, A., 2002. Linking growth episodes of zircon and metamorphic textures to zircon chemistry: an example from the ultrahigh-temperature granulites of Rogaland (SW Norway): Journal of Metamorphic Geology, v. 20, p. 727-750.
- Volume 220, Geological Society, London, Special Publications, p. 65-81.
- Wyllie, P.C., Corfu, F., and Bergh, S., 2011. Paleoproterozoic (2.0-1.95 Ga) pre-orogenic supracrustal sequences in the West Troms Basement Complex, North Norway: Precambrian Research, v. 186, p. 89-100.
- Wyllie, P.C., Corfu, F., Bergh, S., and Kullerød, K., 2013. U-Pb geochronology along an Archean gneiss in the West Troms Basement Complex, North Norway: Norwegian Journal of Geology, v. in press.
- Nilsen, O., Sundvoll, B., Roberts, D., and Corfu, F., 2003. U-Pb geochronology and geochemistry of trondhjemites and a norite pluton from the SW Trondheim Region, Central Norwegian Caledonides: Norges Geologiske Undersøkelse Bulletin, v. 441, p. 5-16.
- Nilsen, O., Corfu, F., and Roberts, D., 2007. Silurian gabbro-diorite-trondhjemite plutons in the Trondheim Nappe Complex, Caledonides, Norway: petrology and U-Pb geochronology: Norwegian Journal of Geology, v. 87, p. 329-342.
- Nissen, A.L., Roberts, D., and Gromel, L.P., 2006. U-Pb zircon ages of a tonalite and a granulite dyke from the southeastern part of the Bindal Batholith, central Norwegian Caledonides: Norges Geologiske Undersøkelse Bulletin, v. 446, p. 5-9.
- Nordgulen, Ø., and Skår, Ø., 2004. Mesoproterozoic crustal evolution of the Idefjorden terrane: U-Pb age determination of granulites using LA-ICPMS analyses of zircon: Journal of the Geological Society, London, v. 147, p. 439-450.
- Nordgulen, Ø., Bickford, M.E., Nissen, A.L., and Wortman, G.L., 1993. U-Pb zircon ages from the Bindal Batholith, and the tectonic history of the Helgeland Nappe Complex, Scandinavian Caledonides: Journal of the Geological Society, London, v. 150, p. 771-783.
- Nordgulen, Ø., Braathen, A., Corfu, F., Osmundsen, P.T., and Husmo, T., 2002. Polyphase kinematics and geochronology of the late- Kolltraumen detachment, north-central Norway: Norwegian Journal of Geology, v. 82, p. 299-316.
- Northrup, G.J., 1997. Timing, structural assembly, metamorphism, and cooling of nappes in the Ofoten-Efjorden area, North Norway: tectonic insights from U-Pb and 40Ar/39Ar geochronology: Journal of Geology, v. 105, p. 565-582.
- O'Brien, G.H., and Krogh, T.E., 1995. U-Pb zircon age of 469 ±5 Ma for a metatonalite from the Kjosan Unit of the Lyngen Magmatic Complex, northern Norway: Norsk Geologisk Tidsskrift, v. 55, p. 111-134.
- Pasteels, P., and Michot, J., 1975. Geochronologic investigation of the metamorphic terrain of southwestern Norway: Norsk Geologisk Tidsskrift, v. 55, p. 111-134.
- Pasteels, P., Demaliffé, D., and Michot, J., 1979. U-Pb and Rb-Sr geochronology of the eastern part of the south Rogaland igneous complex, southern Norway: Lithos, v. 12, p. 199-208.
- Pedersen, O., and Andreasson, P.G., 2002. Attempted break-up of Rodinia at 850 Ma: geochronological evidence from the Svea-Kakak Superterrane, Scandinavian Caledonides: Journal of the Geological Society, London, v. 159, p. 751-761.
- Pedersen, L.L., Heaman, L.M., and Holm, P.M., 1995. Further constraints on the temporal evolution of the Oslo Rift from precise U-Pb zircon dating in the Sjøland-Skrum area: Lithos, v. 34, p. 301-315.

Pedersen, R.B., Dunning, G.R., and Robins, B., 1989. U-Pb ages of nepheline syenite pegmatites from the Seiland Magmatic Province, N Norway. In Gayer, R.A., ed., *The Caledonides geology of Scandinavia*. London, Graham & Trotman, p. 3-8

Pedersen, R.B., Furnes, H., and Dunning, G.R., 1997. Evolution of the Sulfiljama Gabbro, N Norway: further evidence for the development of a marginal basin in Ashgill-Landoverly time. *Geological Magazine*, v. 128, p. 141-153

Pedersen, R.B., and Dunning, G.R., 1997. Evolution of arc crust and relations between contrasting successions: U-Pb (age) Nd and Sr isotopes: systematic of the ophiolite terrain of SW Norway. *Contributions to Mineralogy and Petrology*, v. 128, p. 1-15

Pedersen, S., Anderson, T., Komerup-Madsen, J., and Griffin, W.L., 2009. Recurrent Mesoproterozoic continental magmatism in South-Central Norway. *International Journal of Earth Sciences*, v. 98, p. 1151-1171

Persson, P.O., Wahlgren, C.H., and Hansen, B.T., 1983. U-Pb ages of Proterozoic metaplutons in the gneiss complex of southern Varmland, south-western Sweden. *Geologiska Föreningens i Stockholm Förhandlingar*, v. 105, p. 1-8

Persson, P.O., and Ripa, M., 1993. U-Pb zircon dating of a Jämså-type granite in western Bergslagen, south-central Sweden. In Lundqvist, T., ed., *Radiometric dating results. Volume C83: Uppsala, Sveriges Geologiska Undersökning*. Research Papers, p. 41-45

Pontek, J.E., Connolly, J.N., and Ahali, K.I., 1998. Abstract. 1.3 a anorogenic magmatism in Southwest Sweden: Abstracts with programs. *Geological Society of America*, v. 2, p. 15-16

Ragnhildstvedt, J., Sigmund, E.M.O., and Tucker, R.D., 1994. Abstract. Early Proterozoic supracrustal rocks west of the Mandäl-Utsäset fault zone, Hardangervidda, South Norway. *Terra Nova Abstract Supplement*, v. 2, p. 15-16

Rehmsdorf, E.F., Corfu, F., and Torvik, T.H., 2002. Evidence of a Late Precambrian (637 Ma) deformational event in the Caledonides of Northern Sweden. *Journal of Geology*, v. 110, p. 591-601

Rehmsdorf, E.F., 2003. Geochronology and petrology of the Tielma Magmatic Complex, northern Swedish Caledonides - results and tectonic implications. *Norwegian Journal of Geology*, v. 83, p. 243-257

Rehmsdorf, E.F., and Torvik, T.H., 2003. Cambrian sediments and Proterozoic granites in the Dividalen-Tornetrask area, northern Scandinavia. *Palaogeographien und U-Pb geochronology*, v. 125, p. 131-138

Rimša, A., Johansson, L., and Whitehouse, M.J., 2007. Constraints on incipient charnockite formation from zircon geochronology and rare earth element characteristics: Contributions to Mineralogy and Petrology, v. 132, p. 363-378

Rimša, A., Johansson, L., and Whitehouse, M.J., 2007. Constraints on incipient charnockite formation from zircon geochronology and rare earth element characteristics: Contributions to Mineralogy and Petrology, v. 154, p. 357-369

Roberts, D., and Tucker, R.D., 1991. U-Pb zircon age of a dolerite dyke from near Hammingberg, Varanger Peninsula, North Norway, and its regional significance. *Norges Geologiske Undersøkelser Bulletin*, v. 421, p. 33-38

Roberts, D., and Walker, N., 1997. U-Pb zircon age of a metadiorite from the metadiorite zone, Trondheim region, Central Norwegian Caledonides. *Norsk Geologisk Tidsskrift*, v. 78, p. 95-102

Roberts, D., and Tucker, R.D., 1998. Late Cambrian U-Pb zircon age and geochemistry of a metadiorite from the Bjälghyttan area, Trondheim region, Central Norwegian Caledonides. *Norsk Geologisk Tidsskrift*, v. 79, p. 161-168

Roberts, D., Nissen, A.L., and Walker, N., 1999. U-Pb zircon age and geochemistry of the Bjälghyttan area, Trondheim region, Central Norwegian Caledonides. *Norsk Geologisk Tidsskrift*, v. 79, p. 161-168

Roberts, D., Walker, N., and Ståhl, A., 2002. U-Pb zircon ages from the Björnsås ophiolite, near Trondheim, Central Norwegian Caledonides, and regional implications. *Norwegian Journal of Geology*, v. 82, p. 19-30

Roberts, R.J., Corfu, F., Torvik, T.H., Ashwal, L.D., and Ramsay, D.M., 2006. Short-lived mafic magmatism at 566-570 Ma in the northern Norwegian Caledonides: U-Pb zircon ages from the Seiland Igneous Province. *Geological Magazine*, v. 143, p. 887-903

Roberts, R.J., Corfu, F., Torvik, T.H., Heiering, C.J., and Ashwal, L.D., 2010. Age of alkaline rocks in the Seiland Igneous Province, northern Norway. *Journal of the Geological Society*, v. 167, p. 71-81. doi: 10.1144/0016-7649/2009-014

Roberts, N.M.W., Parrish, R.R., Horwood, M.S.A., and Brewer, T.S., 2012. The 1.23 Ga Fjellövadene rhyolite, Grotta-Totak: a geochemical and U-Pb-Hf-O constraints on the Mesoproterozoic Suddal Arc, SW Norway. *Contributions to Mineralogy and Petrology*, v. 164, p. 81-99. doi: 10.1007/s00410-012-0727-7

Roffeis, C., Corfu, F., and Austrheim, H., 2012. Sedimentary recycling in arc magmas: geochemical and U-Pb-Hf-O constraints on the Mesoproterozoic Suddal Arc, SW Norway. *Contributions to Mineralogy and Petrology*, v. 164, p. 81-99. doi: 10.1007/s00410-012-0727-7

Romer, R.L., Kjöres, B., Korneliusson, A., Lindahl, I., Skjæseth, T., Stendal, M., and Sundvold, B., 1991. The Archaean-Proterozoic boundary beneath the Caledonides of northern Norway and Sweden. *Geochimica et Cosmochimica Acta*, v. 56, p. 2137-2142

Romer, R.L., and Wright, J.E., 1992. U-Pb dating of columbite: a geochronological tool to date magmatism and ore deposits. *Geochimica et Cosmochimica Acta*, v. 56, p. 15-30

Romer, R.L., and Smeds, S.A., 1996. U-Pb columbite ages of pegmatites from Sveconorwegian terranes in southwestern Sweden. *Precambrian Research*, v. 76, p. 15-30

Rohr, T.S., Blingen, B., and Andersen, T.B., 2004. Sveconorwegian U-Pb zircon and monazite ages of granulite-facies rocks, Hilsarøy, Gulen, Western Gneiss Region, Norway. *Contributions to Mineralogy and Petrology*, v. 146, p. 193-206

Rohr, T.S., Corfu, F., Austrheim, H., and Andersen, T.B., 2013. Geochronology of Palaeoproterozoic augen gneisses in the Western Gneiss Region, Norway: evidence for Sveconorwegian zircon neocrystallization and Caledonian zircon deformation. *The Journal of Geology*, in press.

Schärer, U., 1980. U-Pb and Rb-Sr dating of a polymetamorphic nappe terrain: the Jotun Nappe, southern Norway. *Earth and Planetary Science Letters*, v. 49, p. 205-218

Schärer, U., Wilmart, E., and Duchesne, J.C., 1996. The short duration and anorogenic character of anorthositic magmatism: U-Pb dating of the Rogaland complex, Norway. *Earth and Planetary Science Letters*, v. 139, p. 335-350

Scherer, E., Munker, C., and Mezger, K., 2001. Calibration of the lutetium-hafnium clock. *Science*, v. 293, p. 683-687

Schersten, A., Areback, H., Cornell, D.H., and Heston, P., 2000. Dating mafic-ultramafic complexes by ion-microprobe zircon: examples from SW Sweden. *Contributions to Mineralogy and Petrology*, v. 139, p. 115-125

Schersten, A., Larson, S.A., Cornell, D.H., and Stigh, J., 2004. Ion probe dating of a migmatite in SW Sweden: the fate of zircon in crustal processes. *Precambrian Research*, v. 130, p. 251-266

Schouenborg, B.E., Johansson, L., and Gorbatschev, R., 1991. U-Pb zircon ages of basement gneisses and discordant felsic dykes from Vestrindalen, westernmost Baltic Shield and central Norwegian Caledonides. *Geologische Rundschau*, v. 80, p. 121-134

Selbak, R.S., Sjögren, K.P., and Pedersen, R.B., 2000. Generation of anorthositic magma by H₂O-fluxed anatexis of silica-undersaturated gabbro: an example from the north Norwegian Caledonides. *Geological Magazine*, v. 137, p. 609-621

Sklar, Ø., Furnes, H., and Claesson, S., 1994. Proterozoic orogenic magmatism within the Western Gneiss Region, Sumnigro. *Norsk Geologisk Tidsskrift*, v. 74, p. 114-126

Sklar, Ø., and Pedersen, R.B., 2003. Relations between granulite magmatism and migmatization: U-Pb geochronological evidence from the Western Gneiss Complex, Norway. *Journal of the Geological Society*, London, v. 160, p. 935-946

Stellan, T., Roberts, N.M.W., Marker, M., Raff, T.S., and Schiellerup, H., 2013. A non-collisional, arc-tectonic Sveconorwegian orogen. *Terra Nova*, in press. doi: 10.1111/ter.12001

Stellan, T.M.G., Andersen, A., Lindström, M., Gromet, P., and Stillepohl, L.W., 2003. The role of felsic and mafic igneous rocks in deciphering the evolution of thrust-stacked terranes: an example from the North Norwegian Caledonides. *American Journal of Science*, v. 303, p. 149-185

Stephens, M.B., Kullerød, C., and Claesson, S., 1993. Early evolution in outboard terranes, central Scandinavian Caledonides: new constraints from U-Pb zircon dates. *Journal of the Geological Society*, London, v. 150, p. 51-56

Stephens, M.B., Wahlgren, C.H., and Amertiz, K., 1993. U-Pb zircon dates in two younger suites of Palaeoproterozoic intrusions, Karlskoga area, south-central Sweden. In Lundqvist, T., ed., *Radiometric dating results, Volume C823: Uppsala, Sveriges Geologiska Undersökning*. Research Papers, p. 46-59.

Svenningson, O.M., 2001. Onset of seafloor spreading in the Lapetus Ocean at 608 Ma; precise age of the Sarek Dyke Swarm, northern Swedish Caledonides. *Precambrian Research*, v. 110, p. 241-254

Söderlund, U., 1996. Conventional U-Pb dating versus single-grain Pb evaporation dating of complex zircons from a pegmatite in the high-grade gneisses of south-western Sweden. *Lithos*, v. 38, p. 93-105

Söderlund, U., Jarl, L.G., Persson, P.O., Stephens, M.B., and Wahlgren, C.H., 1999. Zircon geochronology and timing of deformation in the eastern, marginal part of the Sveconorwegian orogen, south-western Sweden. *Precambrian Research*, v. 94, p. 29-48

Söderlund, U., Möller, C., Johansson, L., and Whitehouse, M.J., 2002. Proterozoic gneisses in the Sveconorwegian orogen, SW Sweden: ion microprobe evidence for 1.46-1.42 Ga and 0.98-0.96 Ga reworking. *Precambrian Research*, v. 113, p. 193-225

Söderlund, U., Söderlund, U., Möller, C., Gorbatschev, R., and Rodhe, A., 2004. Petrology and ion microprobe U-Pb chronology applied to a metabasic intrusion in southern Sweden: a study on zircon formation during metamorphism and deformation. *Tectonics*, v. 23, p. TC5005. doi:10.1029/2003TC001498

Söderlund, U., Isachsen, C.E., Björnd, G., Heaman, L.M., Patchett, P.J., Verwoerd, J.D., and Anderson, U.B., 2005. U-Pb baddeleyite ages, and Hf, Nd isotope chemistry constraining repeated mafic magmatism in the Fenoscandian Shield from 1.6 to 0.9 Ga. *Contributions to Mineralogy and Petrology*, v. 150, p. 174-194

Söderlund, U., and Asik, R., 2006. Evidence for two pulses (1215-1224 and ca. 1205 Ma) of bimodal magmatism along the Protogine Zone, S. Sweden. *GFF*, v. 128, p. 303-310

Söderlund, U., Hellström, F.A., and Kamo, S.L., 2008a. Geochronology of high-pressure mafic granulite dykes in SW Sweden: tracking the P-T path of metamorphism using Hf isotopes in zircon and baddeleyite. *Journal of Metamorphic Geology*, v. 26, p. 539-560

Söderlund, U., Hellström, F.A., and Kamo, S.L., 2008b. Geochronology of high-pressure mafic granulite dykes in SW Sweden: a glimpse of the Proterozoic evolution of SW Fennoscandia. *GFF*, v. 130, p. 1-10

Tucker, R.D., Råheim, A., Krogh, T.E., and Corfu, F., 1987. Uranium-lead zircon and titanite ages from the northern portion of the Western Gneiss Region, south-central Norway. *Earth and Planetary Science Letters*, v. 81, p. 203-211

Tucker, R.D., Boyd, R., and Barnes, S.J., 1990a. A U-Pb zircon age for the Råna intrusion, N. Norway: new evidence of basic magmatism in the Scandinavian Caledonides in Early Silurian time. *Norsk Geologisk Tidsskrift*, v. 70, p. 229-239

Tucker, R.D., Krogh, T.E., and Råheim, A., 1990b. Proterozoic evolution and age - province boundaries in the central part of the Western Gneiss Region, Norway: results of U-Pb dating of accessory minerals from Trondheimfjorden to Geiranger, in Gower, C.F., Rivers, T., and Ryan, B., eds., *Mid-Proterozoic Laurentia-Baltica*, v. 38. Geological Association of Canada, Special Paper 38, p. 149-173.

Tucker, R.D., Robinson, P., Solli, A., Gee, D.G., Thorsnes, T., Krogh, T.E., Nordgulen, Ø., and Bickford, M.E., 2004. Thrusting and extension in the Scandinavian hinterland, Norway: new U-Pb ages and tectonostratigraphic evidence. *American Journal of Science*, v. 304, p. 477-532.

Vaasjoki, M., and Sipilä, P., 2001. U-Pb isotopic determinations on baddeleyite and zircon from the Hilti-Ridnitsohokka intrusion in Finnish Lapland: a further constraint on Caledonian evolution, in Vaasjoki, M., ed., *Radiometric age determinations from Finnish Lapland and their bearing on the timing of Precambrian volcano-sedimentary sequences*. *Geological Survey of Finland, Special Paper*, 33, p. 247-253.

Vander Auwera, J., Bolle, O., Bingen, B., and Longhi, J., 2011. Sveconorwegian mafic-type anorthositic and related granulites result from post-collisional melting of a continental root: Earth-Science Reviews, v. 107, p. 375-397.

Wahlgren, C.H., Heaman, L.M., Kamo, S.L., and Ingvail, E., 1996. U-Pb baddeleyite dating of dolerite dykes in the eastern part of the Sveconorwegian orogen, south-central Sweden. *Precambrian Research*, v. 79, p. 227-237

Wahlgren, T.E., Frii, D., and Storey, M., 2012. Geochronological constraints on granitic magmatism, deformation, cooling and uplift on Bornholm, Denmark. *Bulletin of the Geological Society of Denmark*, v. 60, p. 23-46

Wahlerbaug, H.J., Torvik, T.H., Eide, E.A., Sundvold, B., and Bingen, B., 1999. Geochronology and paleomagnetism of the Humledalen dykes, SW Norway: implications for the Sveconorwegian apparent polar wander loop: *Earth and Planetary Science Letters*, v. 169, p. 71-83

Wein, E., and Kahr, A.M., 1960. The Rb-Sr and U-Pb ages of Proterozoic gneissic granulites in Central Varmland, Western Sweden. *Sveriges Geologiska Föreningens i Stockholm Förhandlingar*, v. C777, p. 24-26

Wein, E., and Gorbatschev, R., and Kahr, A.M., 1981. The radiometric age of the Proterozoic granite at Sandsjö, western Varmland, Sweden. *Geologiska Föreningens i Stockholm Förhandlingar*, v. 103, p. 514-518

Wein, E., and Samuëlsson, L., 1987. Rb-Sr and U-Pb zircon dating of polymetamorphic rocks in southwestern Sweden. *Sveriges Geologiska Undersökning*, v. C797, p. 1-34

Wein, E., 1994. Isotopic investigations of Proterozoic igneous rocks in south-western Sweden. *GFF*, v. 116, p. 75-86

Wikman, H., 1997. U-Pb zircon ages of three granulites from the Vågå region, south central Sweden. *Radiometric dating results*, v. 3. Volume C830: Uppsala, Sveriges Geologiska Undersökning. Research Paper, p. 63-72

Williams, A., 1996. U-Pb zircon dating of a coarse porphyritic quartz monzonite and an even grained, grey tonalitic granite from the Tiveden area, south central Sweden. In Lundqvist, T., ed., *Radiometric dating results*, v. 2. Volume C828: Uppsala, Sveriges Geologiska Undersökning. Research Papers, p. 41-47

Williams, I.S., and Claesson, S., 1987. Isotopic evidence for the Precambrian provenance and metamorphism of high grade paragneisses from the Sveconorwegian U-Th-Pb: Contributions to Mineralogy and Petrology, v. 97, p. 205-217

Yoshino, A.S., Barnes, C.G., Nordgulen, Ø., Prestvik, T., Fanning, M., and Pedersen, R.B., 2002. Orivorian magmatism, deformation, and exhumation in the Caledonides of Norway: an orphan of the Taconic orogeny? *Geology*, v. 30, p. 883-886

Zachrisson, E., Grilling, R.O., and Persson, P.O., 1996. Recognition of basement rocks in the metamorphic Sveve Nappe. *Upper Allochthon, central Swedish Caledonides*, in Lundqvist, T., ed., *Radiometric dating results*, v. 2. Volume C828: Uppsala, Sveriges Geologiska Undersökning. Research Papers, p. 57-7

Zanin, K., and Johansson, A., 2009. U-Pb geochronology of gneisses and granulites from the Danish island of Bornholm: new evidence for 1.47-1.45 Ga magmatism at the southwestern margin of the East European Craton. *International Journal of Earth Sciences*, v. 98, p. 1561-1580

Zavala, D., Kullerød, C., Ravna, E.K., Corfu, F., and Savchenko, Y., 2009. Geology, age and geochemical constraints on the origin of the Late Archaean Mikkelvik alkaline stock, West Troms Basement Complex in Northern Norway. *Norwegian Journal of Geology*, v. 89, p. 327-340.

Zhou, X.O., Bingen, B., Demalife, D., Liegeois, J.P., Hertzogen, J., Weis, D., and Michot, J., 1995. The 1160 Ma old Hilderskog meta-charnockite: implications of this A-type pluton for the Sveconorwegian belt in West Agder (SW Norway). *Lithos*, v. 36, p. 51-66

Zwaan, K.B., and Tucker, R.D., 1996. Abstract. Absolute and relative age relationships in the precambrian West Troms Basement Complex, northern Norway. 22nd Nordic Geological Winter Meeting., Åbo, Finland.