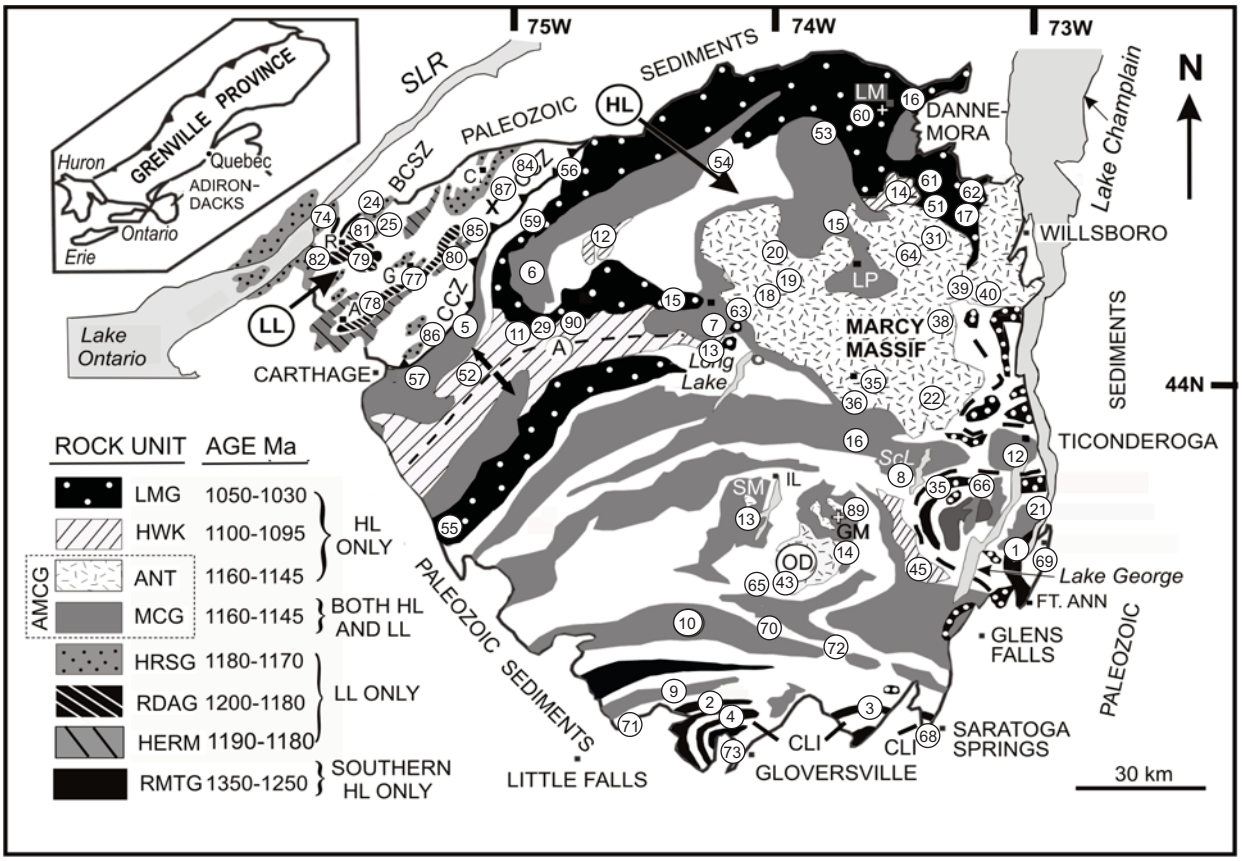

Fig. DR1. Locations of dated Adirondack samples in Table DR1. Base map is the same as Fig. 4 in the main text.

TABLE DR1. Zircon Geochronology of the Adirondack Mountains (See note below table for ref info corresponding to ref numbers.)

Location	Map Number	Sample Number	Location and composition	TIMS Age Ma sg- single grain	Error ± Ma σ = 2	REF	SHRIMP Age Ma	Error ± Ma σ = 2	REF	TDM Ma	REF
Highlands											
Tonalite, Grandiorite											
South Bay	1	AM-87-12	tonalite	1329	11	1					
Canada Lake	2	AM-86-12	tonalite	1306	6	1				1403	14
Lake Desolation	3	LDT	tonalite	>1336		1				1388	14
Canada Lake	4	AM-87-13	charnockite	1253	30	1				1380	14
Mangerite, Charnockite											14
Diana Complex	5	AM-86-2	quartz syenite	1155	4	1	1164	11	4	1430	14
Stark Complex	6	AM-86-15	rapakivi granite	1147	10	1				1495	14
Tupper Lake	7	AM-85-6	megacrystic charnockite	1134, 1050m	4	1	1170, 1250c.	8	4	1345	14
Schroon Lake	8	9-23-85-7	migmatitic granite	1125, 1050m	10	1	1167	9	4		
Rooster Hill	9	Am-86-17	megacrystic charnockite	1156	8	1				1436	14
Piseco Lake	10	AM-86-9	mylonitic granite	1150	5	1	1160	10	4	1345	14
Oswegatchie	11	AC-85-2	flourite granite	1146	5	1					
Ticonderoga	12	Silver, 1969	megacrystic charnockite	1113	16	1					
Snowy Mountain	13	AM-86-8	charnockite	>1095		1	1174	25	4		
Gore Mountain	14	AM-87-3	charnockite	>1088		1	1154	17	4		
Bloomingdale	15	AC-85-10	mangerite	1133	51	1	1164, 1250c.	13	4		
Minerva	16	AM-87-10	charnockite	>1082		1	1176, 1049r.	11, 4r.	4		
Croghan	17	AM-86-1	megacrystic granite	1155	13	1					
Wabeek Quarry	63	AC-85-10	mangerie dike	1160	10	1					
Yard Hill	64	AC-85-11	jotunite	1143	33	1					
Anorthosite and Olivine Gabbro						1					
Saranac Lake	18	AC-85-8	anorrthosite	>1113,1054m		1	1155	10	4		
Saranac Lake	19	AC-85-7	anorthosite	>1087, 1052m		1	1149	35	4		
Forest Home	20	AC-85-9	anorthosite	996	6	1					
Dresden Station	21	AM-87-11	coronitic olivine gabbro	1147	7	1	1106	6	5	1331	14
North Hudson	22	CGAB	coronitic olivine gabbro	>1109, 1057m		1	1150, 1050m	14	4		
Jay	31	BMH-01-4	anorthosite pegmatite				1160	13	4		
Tahawus Mine	35	BMH-01-1	anorthosite				1165, 1050m	13	4		
Blue Ridge Road	36	BMH-01-2	anorthosite				1160, 1050m	15, 10m	4		
Exit 30S, I-87	38	BMH-01-19	anorthosite				1155, 1050m	11	4		
Eizabethtown	39	BMH-01-E3	Woolen Mill gabbro				1157	8	4		
Elizabethtown	40a	BMH-01-E1	anorthosite 1				1153	9	4		
Elizabethtown	40b	BMH-01-E2	anorthosite 2				1153	6	4		
Oregon Dome	43a	AM-87-8	ferrodiorite				1156	7	4		
Oregon Dome	43b	BMH-01-9	anorthosite				1159	12	4		

Table 1 (continued)

Location	Map Number	Sample Number	Location and composition	TIMS Age Ma sg- single grain	Error ± Ma σ = 2	REF	SHRIMP Age Ma	Error ± Ma σ = 2	REF	TDM Ma	REF
Hawkeye Granite Suite											
Carry Falls	12	AM-86-3	megacrystic granite	1100	12	1					
Little Tupper Lake	13	Am-86-6	coarse pink granite	1098	4	1				1314	14
Hawkeye	14	AM-86-13	coarse pink granite	1093	11	1					
Moon Mountain	45	Moon Mt.	coarse pinkgranite	1103	15	1					
Stillwater Reservoir	52	NOFO-1	pink granite	1095	5	1					
Saint Regis	53	AM-87-6	pink granite	1090	6	1					
Santa Clara	54	AM-87-7	pink granite	1080	4	1					
Pegmatites associated with large garnet deposits											
Gore Mountain	89	BWS-1-09	megagarnet amphibolite				1045u.i.	8	6		
Cranberry Lake	90	BWS-09-2	megagarnet gabbro				1055u.I.	8	6		
Lyon Mountain leucogranite											
Piercefield	15	AM-86-4	pink leucogranite	1075	17	1	1058, 1155c	18	7	1576	
Dannemora	16	AM-86-10	pink leucogranite	1073	6	1	1052, 1155c	11	7	1350	
Ausable Forks	17	AM-86-14	quartz albitite	1057	10	1	1041, 1100-1160c	16	7		
Wanakena	29	CLFG	fayalite granite	1089 s.g	10	1	1047, 1153c	10	7		
Schroon Lake	38	9-23-85-6	pink leucogranite	1049s.g.	3	1					
Ausable Forks	51	Am-86-11	fayalite granite	1047s.g.	2	1					
Port Leyden	55a	PL-PEG	zoned pegmatite	1034s.g.	10	1	1038	4	7		
Port Leyden	55b	PL-3	pink leucogranite	1035s.g.	3.8	1					
Buck Pond Road	56	BS-1	pink leucogranite, in CCZ				1046	7	8		
Croghan	57	BS-2	pink leucogranite in CCZ				1035, 1095c	10	8		
Brouses Corners	59	BM-3	pink leucogranite in CCZ				1044	7	8		
Lyon Mountain	60	PV-1	granite dike				1039	4	9		
Palmer Hill	61	PV-2	pink leucogranite				1063	5	9		
Arnold Hill	62	PV-3	pink leucogranite				1061, 1129c.	4	9		
Leucosome in paragneiss											
Speculator	65a	AD-A1,-B2	mylonitic pegmatite				1167, 1177	13	10		
Speculator	65b	AD-A2,-B2	mylonitic pegmatite				1050-1090 rims	8rims	10		
Swede Mountain	66	BMH-01-14	mylonitic pegmatite				1135-1179c, 1041r	11r	10		
Saratoga Springs	67	BM-04-01	pegmatite				(1098-1203)c, 1040	23r	10		
Comstock	69	BM-04-02	mylonitic pegmatite				(1750-1210)c, 1039	15r	10		
Wells	70	MH-10	mylonitic granite				1167, 1340c	13	10		
Pleasant Lake	71	MH-11	sheared pegmatite				1158	18	10		
Conklingville Dam	72	MH-12	Conklingville dam				1132	20	10		
Peck Lake	73	MH-13	monazite in metapelite				1183c, 1040r	13c, 10r	10		

Table 1 (continued)

Location	Map Number	Sample Number	Location and composition	TIMS Age Ma sg- single grain	Error ± Ma σ = 2	REF	SHRIMP Age Ma	Error ± Ma σ = 2	REF	TDM Ma	REF
Lowlands											
Hyde School gneiss											
Wellesley Island	23	AM-86-16	pink granite, xenoliths	1172s.g.	5	11			11	1440	
Fish Creek	24	AC-85-4	pink granite, xenoliths	1172s.g.	5	11			11	1210	
Hyde Scool	25	AC-85-5	pink granite, xenoliths	1172s.g.	5	11			11	1380	
Reservoir Hill	26	AC-85-1	pink granite, xenoliths	ca. 1172		3			11		
Antwerp	27	ANTG	granitoid	1183	7	3	1207	23	11		
Rossie Diorite	79	BSJ-1	diorite				1203	13	13		
Hermon Granite	84	MH-9	megacrystic granite				1182	8	10		
Edwardsville	81a	AM-87-5a	pink granitoid	1150	4	3					
Edwardsville	81b	AM-87-5b	dark granitoid				1149	22	12		
North Hammond	82	AM-87-3	pink granite, xenoliths	1155	15	3			12		
Leucosome in paragneiss											
Devil's Elbow	84	MH-01	pegmatite				1160	30	10		
Trout Lake	85	MH-02	pegmatite				1165, 1340c	9	10		
Balmat	86	MH-03	pegmatite				1180, 1300c	12	10		
Tonalite and gabbro											
Pierrepont	87a	BS-3a	Pierrepont				1209, 1150m	10	12		
Pierrepont	87b	BS-3b	Pierrepont				1137m, 1145m	16, 15	12		
Ophiolitic peridotite											
South Pyrites	X	JCH-X	peridotite				1202m	10	13	1366-1735	

m - metamorphic, c-core - rim, CCZ - Carthage-Colton Shear Zone, REF - Reference number, TDM - Neodymium model age
TIMS- Thermal ionization mass spectrometry

Note: Pages 5 and 7 of this document contain the references corresponding to the references above.

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