

Appendix A. Summary of study site information.

ID	1st author	Year publ.	Journal	site	coordinates		peatland type	microform	<i>Sphagnum</i> species	Year meas.	meas. method
					Y	X					
1	Asada	2003	<i>The Bryologist</i>	Diana Lake	54.22	-130.17	poor fen	hummock	<i>fuscum</i>	1999	CW
2	Bauer	2007	<i>Can J of Bot</i>	Old Black spruce	53.98	-105.11	poor fen	hummock	<i>fuscum</i>	2004	CW
3	Camill	2001	<i>Ecosystems</i>	collapse scar	52.35	-94.7	poor fen	hummock	<i>fuscum</i>	1996	CW
4	Camill	2001	<i>Ecosystems</i>	collapse scar	55.73	-97.85	poor fen	hummock	<i>fuscum</i>	1996	CW
5	Camill	2001	<i>Ecosystems</i>	collapse scar	54.9	-98.63	poor fen	hummock	<i>fuscum</i>	1996	CW
6	Camill	2001	<i>Ecosystems</i>	collapse scar	54.88	-100.02	poor fen	hummock	<i>fuscum</i>	1996	CW
7	Camill	2001	<i>Ecosystems</i>	permafrost plateau	52.35	-94.7	bog	hummock	<i>fuscum</i>	1996	CW
8	Camill	2001	<i>Ecosystems</i>	permafrost plateau	55.73	-97.85	bog	hummock	<i>fuscum</i>	1996	CW
9	Camill	2001	<i>Ecosystems</i>	permafrost plateau	54.9	-98.63	bog	hummock	<i>fuscum</i>	1996	CW
10	Camill	2001	<i>Ecosystems</i>	permafrost plateau	54.88	-100.02	bog	hummock	<i>fuscum</i>	1996	CW
11	Camill	2001	<i>Ecosystems</i>	permafrost plateau	52.35	-94.7	bog	hummock	<i>fuscum</i>	1998	CW
12	Camill	2001	<i>Ecosystems</i>	permafrost plateau	55.73	-97.85	bog	hummock	<i>fuscum</i>	1998	CW
13	Camill	2001	<i>Ecosystems</i>	permafrost plateau	54.9	-98.63	bog	hummock	<i>fuscum</i>	1998	CW
14	Camill	2001	<i>Ecosystems</i>	permafrost plateau	54.88	-100.02	bog	hummock	<i>fuscum</i>	1998	CW
15	Camill	2001	<i>Ecosystems</i>	collapse scar	52.35	-94.7	poor fen	hummock	<i>fuscum</i>	1998	CW
16	Camill	2001	<i>Ecosystems</i>	collapse scar	55.73	-97.85	poor fen	hummock	<i>fuscum</i>	1998	CW
17	Camill	2001	<i>Ecosystems</i>	collapse scar	54.9	-98.63	poor fen	hummock	<i>fuscum</i>	1998	CW
18	Camill	2001	<i>Ecosystems</i>	collapse scar	54.88	-100.02	poor fen	hummock	<i>fuscum</i>	1998	CW
19	Chapin	2004	<i>Wetlands</i>	Toivola	47.18	-93.73	bog	hummock	<i>fuscum</i>	1995	CW
20	Chapin	2004	<i>Wetlands</i>	Toivola	47.18	-93.73	bog	hummock	<i>fuscum</i>	1996	CW
21	Chapin	2004	<i>Wetlands</i>	Toivola	47.18	-93.73	bog	hummock	<i>fuscum</i>	1997	CW
22	Damman	1978	<i>Oikos</i>	Tranerods Mosse	56.08	13.17	bog	hummock	<i>fuscum</i>	1974	CW
23	Dorreppall	2003	<i>Glob Ch Biol</i>	Lake Tornetrask	68.35	18.82	bog	hummock	<i>fuscum</i>	2001	CW
24	Dorreppall	2003	<i>Glob Ch Biol</i>	Lake Tornetrask	68.35	18.82	bog	hummock	<i>fuscum</i>	2002	CW
25	Granath	2010	<i>Ecology</i>	Ha" llefja" rd	60.5	17.95	rich fen	hollow	<i>fuscum</i>	2006	CW
26	Granath	2010	<i>Ecology</i>	Hallefjard	60.5	17.95	rich fen	lawn	<i>fuscum</i>	2006	CW
27	Granath	2010	<i>Ecology</i>	Hallefjard	60.5	17.95	rich fen	hummock	<i>fuscum</i>	2006	CW
28	Gunnarsson	2000	<i>New Phytol</i>	Akhultmyr	57.1	14.55	bog	hummock	<i>fuscum</i>	1996	CW
29	Gunnarsson	2000	<i>New Phytol</i>	Akhultmyr	57.1	14.55	bog	hummock	<i>fuscum</i>	1997	CW
30	Gunnarsson	2000	<i>New Phytol</i>	Akhultmyr	57.1	14.55	bog	hummock	<i>fuscum</i>	1998	CW
31	Gunnarsson	2000	<i>New Phytol</i>	Luttumyr	61.03	13.37	bog	hummock	<i>fuscum</i>	1996	CW
32	Gunnarsson	2000	<i>New Phytol</i>	Luttumyr	61.03	13.37	bog	hummock	<i>fuscum</i>	1997	CW
33	Gunnarsson	2000	<i>New Phytol</i>	Luttumyr	61.03	13.37	bog	hummock	<i>fuscum</i>	1998	CW
34	Hajek	2009	<i>Boreal Env Res</i>	Rokytecka slat	49.02	13.42	bog	hummock	<i>fuscum</i>	2001	CW
35	Lindholm	1990	<i>Ann Bot Fennici</i>	Laaviosuo	61.03	25	bog	hummock	<i>fuscum</i>	1975	CW
36	Lindholm	1990	<i>Ann Bot Fennici</i>	Laaviosuo	61.03	25	bog	hummock	<i>fuscum</i>	1976	CW

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					Y	X					
37	Lindholm	1990	<i>Ann Bot Fennici</i>	Laaviosuo	61.03	25	bog	hummock	<i>fuscum</i>	1977	CW
38	Lindholm	1990	<i>Ann Bot Fennici</i>	Laaviosuo	61.03	25	bog	hummock	<i>fuscum</i>	1978	CW
39	Moore	1989	<i>Can J of Bot</i>	Site D	54.8	-66.82	poor fen	hummock	<i>fuscum</i>	1984	CW
40	Moore	1989	<i>Can J of Bot</i>	Site D	54.8	-66.82	poor fen	hummock	<i>fuscum</i>	1985	CW
41	Moore	2002	<i>J of Ecol</i>	Mer Bleue	45.68	-75.8	bog	hummock	<i>fuscum</i>	1999	CW
42	Robroek	2007	<i>Plant Ecol</i>	Mongan Bog	53.32	-7.97	bog	hummock	<i>fuscum</i>	2003	see paper
43	Rocheftort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	hummock	<i>fuscum</i>	1984	CW
44	Rocheftort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	hummock	<i>fuscum</i>	1985	CW
45	Rocheftort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	hummock	<i>fuscum</i>	1986	CW
46	Rocheftort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	hummock	<i>fuscum</i>	1987	CW
47	Rocheftort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	hummock	<i>fuscum</i>	1984	CW
48	Rocheftort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	hummock	<i>fuscum</i>	1985	CW
49	Rocheftort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	hummock	<i>fuscum</i>	1986	CW
50	Rocheftort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	hummock	<i>fuscum</i>	1987	CW
51	Thormann	1997	<i>Ecoscience</i>	Bog site	54.68	-113.35	bog	hummock	<i>fuscum</i>	1993	CW
52	Thormann	1997	<i>Ecoscience</i>	Bog site	54.68	-113.35	bog	hummock	<i>fuscum</i>	1994	CW
53	Vitt	2003	<i>The Bryologist</i>	Steppbank	56.88	-111.27	bog	hummock	<i>fuscum</i>	2000	CW
54	Vitt	2003	<i>The Bryologist</i>	Anzac West	56.45	-111.05	bog	hummock	<i>fuscum</i>	2000	CW
55	Vitt	2003	<i>The Bryologist</i>	Anzac East	56.45	-111.03	bog	hummock	<i>fuscum</i>	2000	CW
56	Vitt	2003	<i>The Bryologist</i>	Thickwood Hills	56.78	-112.02	bog	hummock	<i>fuscum</i>	2000	CW
57	Vitt	2003	<i>The Bryologist</i>	Wandering River	55.28	-112.47	bog	hummock	<i>fuscum</i>	2000	CW
58	Vitt	2003	<i>The Bryologist</i>	Bleak Lake	54.68	-113.47	bog	hummock	<i>fuscum</i>	2000	CW
59	Wallen	1988	<i>Holarctic Ecol</i>	Akhultmyren	57.1	14.53	bog	hummock	<i>fuscum</i>	1980	CW
60	Wallen	1988	<i>Holarctic Ecol</i>	Akhultmyren	57.1	14.53	bog	hummock	<i>fuscum</i>	1981	CW
61	Wallen	1988	<i>Holarctic Ecol</i>	Akhultmyren	57.1	14.53	bog	hummock	<i>fuscum</i>	1982	CW
62	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 7	58.67	-112.27	bog	hummock	<i>fuscum</i>	2005	CW
63	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 10	57.32	-112.4	bog	hummock	<i>fuscum</i>	2005	CW
64	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 11	57.7	-111.9	bog	hummock	<i>fuscum</i>	2005	CW
65	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 7	57.15	-110.87	bog	hummock	<i>fuscum</i>	2005	CW
66	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 10	56.63	-110.2	bog	hummock	<i>fuscum</i>	2005	CW
67	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 11	57.28	-111.23	bog	hummock	<i>fuscum</i>	2005	CW
68	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 7	55.68	-111.83	bog	hummock	<i>fuscum</i>	2005	CW
69	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 8	56.22	-111.2	bog	hummock	<i>fuscum</i>	2005	CW
70	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 9	56.22	-111.25	bog	hummock	<i>fuscum</i>	2005	CW
71	Wieder	2010	<i>J of Paleolimn</i>	W Fort McMurray 4	57.15	-111.98	bog	hummock	<i>fuscum</i>	2005	CW
72	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 7	58.67	-112.27	bog	hummock	<i>fuscum</i>	2006	CW

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					Y	X					
73	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 10	57.32	-112.4	bog	hummock	<i>fuscum</i>	2006	CW
74	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 11	57.7	-111.9	bog	hummock	<i>fuscum</i>	2006	CW
75	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 7	57.15	-110.87	bog	hummock	<i>fuscum</i>	2006	CW
76	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 10	56.63	-110.2	bog	hummock	<i>fuscum</i>	2006	CW
77	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 11	57.28	-111.23	bog	hummock	<i>fuscum</i>	2006	CW
78	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 7	55.68	-111.83	bog	hummock	<i>fuscum</i>	2006	CW
79	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 8	56.22	-111.2	bog	hummock	<i>fuscum</i>	2006	CW
80	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 9	56.22	-111.25	bog	hummock	<i>fuscum</i>	2006	CW
81	Wieder	2010	<i>J of Paleolimn</i>	W Fort McMurray 4	57.15	-111.98	bog	hummock	<i>fuscum</i>	2006	CW
82	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 7	58.67	-112.27	bog	hummock	<i>fuscum</i>	2007	CW
83	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 10	57.32	-112.4	bog	hummock	<i>fuscum</i>	2007	CW
84	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 11	57.7	-111.9	bog	hummock	<i>fuscum</i>	2007	CW
85	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 7	57.15	-110.87	bog	hummock	<i>fuscum</i>	2007	CW
86	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 10	56.63	-110.2	bog	hummock	<i>fuscum</i>	2007	CW
87	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 11	57.28	-111.23	bog	hummock	<i>fuscum</i>	2007	CW
88	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 7	55.68	-111.83	bog	hummock	<i>fuscum</i>	2007	CW
89	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 8	56.22	-111.2	bog	hummock	<i>fuscum</i>	2007	CW
90	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 9	56.22	-111.25	bog	hummock	<i>fuscum</i>	2007	CW
91	Wieder	2010	<i>J of Paleolimn</i>	W Fort McMurray 4	57.15	-111.98	bog	hummock	<i>fuscum</i>	2007	CW
92	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 7	58.67	-112.27	bog	hummock	<i>fuscum</i>	2008	CW
93	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 10	57.32	-112.4	bog	hummock	<i>fuscum</i>	2008	CW
94	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 11	57.7	-111.9	bog	hummock	<i>fuscum</i>	2008	CW
95	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 7	57.15	-110.87	bog	hummock	<i>fuscum</i>	2008	CW
96	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 10	56.63	-110.2	bog	hummock	<i>fuscum</i>	2008	CW
97	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 11	57.28	-111.23	bog	hummock	<i>fuscum</i>	2008	CW
98	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 7	55.68	-111.83	bog	hummock	<i>fuscum</i>	2008	CW
99	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 9	56.22	-111.25	bog	hummock	<i>fuscum</i>	2008	CW
100	Wieder	2010	<i>J of Paleolimn</i>	W Fort McMurray 4	57.15	-111.98	bog	hummock	<i>fuscum</i>	2008	CW
101	Aerts	1992	<i>J of Ecol</i>	Akhul	57.08	14.5	bog	lawn	<i>magellanicum</i>	1990	CW
102	Aerts	2001	<i>J of Ecol</i>	Akhul	57.08	14.5	bog	lawn	<i>magellanicum</i>	-	CW
103	Berendse	2001	<i>Glob Ch Biol</i>	Salmisuo	62.78	30.93	bog	lawn	<i>magellanicum</i>	1998	CW
104	Berendse	2001	<i>Glob Ch Biol</i>	Kopparasmyren	57.13	14.5	bog	lawn	<i>magellanicum</i>	1998	CW
105	Berendse	2001	<i>Glob Ch Biol</i>	Chaux-des-Breuleux	47.22	7.05	bog	lawn	<i>magellanicum</i>	1998	CW
106	Berendse	2001	<i>Glob Ch Biol</i>	Dwingeloo	52.82	6.42	bog	lawn	<i>magellanicum</i>	1998	CW
107	Berendse	2001	<i>Glob Ch Biol</i>	Salmisuo	62.78	30.93	bog	lawn	<i>magellanicum</i>	1998	CW
108	Berendse	2001	<i>Glob Ch Biol</i>	Kopparasmyren	57.13	14.5	bog	lawn	<i>magellanicum</i>	1998	CW

ID	1st author	Year publ.	Journal	site	coordinates		peatland type	microform	<i>Sphagnum</i> species	Year meas.	meas. method
					Y	X					
109	Berendse	2001	<i>Glob Ch Biol</i>	Chaux-des-Breuleux	47.22	7.05	bog	lawn	<i>magellanicum</i>	1998	CW
110	Berendse	2001	<i>Glob Ch Biol</i>	Dwingeloo	52.82	6.42	bog	lawn	<i>magellanicum</i>	1998	CW
111	Damman	1978	<i>Oikos</i>	Tranerods Mosse	56.08	13.17	bog	hummock	<i>magellanicum</i>	1974	CW
112*	Gerold	1995	<i>J of Ecol</i>	I Dossi	46.32	11.67	bog	hummock	<i>magellanicum</i>	1989	CW
113*	Gerold	1995	<i>J of Ecol</i>	I Dossi	46.32	11.67	bog	hummock	<i>magellanicum</i>	1990	CW
114*	Gerold	1995	<i>J of Ecol</i>	I Dossi	46.32	11.67	bog	hummock	<i>magellanicum</i>	1991	CW
115	Grigal	1985	Can J of Bot	Marcel Exp Forest	46.5	-93.5	bog	hummock	<i>magellanicum</i>	1983	CW
116	Gunnarsson	2000	<i>New Phytol</i>	Akhultmyr	57.1	14.55	bog	hummock	<i>magellanicum</i>	1996	CW
117	Gunnarsson	2000	<i>New Phytol</i>	Akhultmyr	57.1	14.55	bog	hummock	<i>magellanicum</i>	1997	CW
118	Gunnarsson	2000	<i>New Phytol</i>	Akhultmyr	57.1	14.55	bog	hummock	<i>magellanicum</i>	1998	CW
119	Gunnarsson	2000	<i>New Phytol</i>	Luttumyr	61.03	13.37	bog	hummock	<i>magellanicum</i>	1996	CW
120	Gunnarsson	2000	<i>New Phytol</i>	Luttumyr	61.03	13.37	bog	hummock	<i>magellanicum</i>	1997	CW
121	Gunnarsson	2000	<i>New Phytol</i>	Luttumyr	61.03	13.37	bog	hummock	<i>magellanicum</i>	1998	CW
122*	Hajek	2009	<i>Boreal Env Res</i>	Rokytecka slat	49.02	13.42	bog	hummock	<i>magellanicum</i>	2001	CW
123	Limpens	2004	<i>Ecosystems</i>	Clara Bog	52.32	7.6	bog	lawn	<i>magellanicum</i>	1998	CW
124	Limpens	2004	<i>Ecosystems</i>	Clara Bog	52.32	7.6	bog	lawn	<i>magellanicum</i>	1999	CW
125	Limpens	2004	<i>Ecosystems</i>	Clara Bog	52.32	7.6	bog	lawn	<i>magellanicum</i>	2000	CW
126	Limpens	2004	<i>Ecosystems</i>	Clara Bog	52.32	7.6	bog	lawn	<i>magellanicum</i>	2001	CW
127	Moore	2002	<i>J of Ecol</i>	Mer Bleue	45.68	-75.8	bog	hollow	<i>magellanicum</i>	1999	CW
128	Robson	2003	<i>New Phytol</i>	Tierra del Fuego NP	-54.85	-68.6	bog	lawn	<i>magellanicum</i>	1999	CW
129	Robson	2003	<i>New Phytol</i>	Tierra del Fuego NP	-54.85	-68.6	bog	lawn	<i>magellanicum</i>	2000	CW
130	Robson	2003	<i>New Phytol</i>	Tierra del Fuego NP	-54.85	-68.6	bog	lawn	<i>magellanicum</i>	2001	CW
131	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	lawn	<i>magellanicum</i>	1984	CW
132	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	lawn	<i>magellanicum</i>	1985	CW
133	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	lawn	<i>magellanicum</i>	1986	CW
134	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	lawn	<i>magellanicum</i>	1987	CW
135	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	lawn	<i>magellanicum</i>	1984	CW
136	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	lawn	<i>magellanicum</i>	1985	CW
137	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	lawn	<i>magellanicum</i>	1986	CW
138	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	lawn	<i>magellanicum</i>	1987	CW
139	Wallen	1988	<i>Holarctic Ecol</i>	Akhultmyren	57.1	14.53	bog	hummock	<i>magellanicum</i>	1980	CW
140	Wallen	1988	<i>Holarctic Ecol</i>	Akhultmyren	57.1	14.53	bog	hummock	<i>magellanicum</i>	1981	CW
141	Wallen	1988	<i>Holarctic Ecol</i>	Akhultmyren	57.1	14.53	bog	hummock	<i>magellanicum</i>	1982	CW
142	Wieder	1983	<i>The Bryologist</i>	Big Run Bog	39.12	-79.58	bog	hummock	<i>magellanicum</i>	1981	CW

* high-elevation site

CW : cranked wire

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