

**Supplement A.** Summary of study site information, ordered from lowest to highest PAR0 value. ID number is the same as in Fig. 1.

ID	1 <sup>st</sup> author	Year published	Journal	site	coordinates		Peatland type	microform	<i>Sphagnum</i> species
					Y	X			
1	Dorrepaal	2003	<i>Glob Ch Biol</i>	Lake Tornetrask	68.35	18.82	bog	hummock	<i>fuscum</i>
2	Dorrepaal	2003	<i>Glob Ch Biol</i>	Lake Tornetrask	68.35	18.82	bog	hummock	<i>fuscum</i>
3	Moore	1989	<i>Can J of Bot</i>	Site D	54.8	-66.82	poor fen	hummock	<i>fuscum</i>
4	Moore	1989	<i>Can J of Bot</i>	Site D	54.8	-66.82	poor fen	hummock	<i>fuscum</i>
5	Berendse	2001	<i>Glob Ch Biol</i>	Salmisuo	62.78	30.93	bog	lawn	<i>magellanicum</i>
6	Berendse	2001	<i>Glob Ch Biol</i>	Salmisuo	62.78	30.93	bog	lawn	<i>magellanicum</i>
7	Gunnarsson	2000	<i>New Phytol</i>	Luttumyr	61.03	13.37	bog	hummock	<i>fuscum</i>
8	Gunnarsson	2000	<i>New Phytol</i>	Luttumyr	61.03	13.37	bog	hummock	<i>fuscum</i>
9	Gunnarsson	2000	<i>New Phytol</i>	Luttumyr	61.03	13.37	bog	hummock	<i>fuscum</i>
10	Camill	2001	<i>Ecosystems</i>	collapse scar	55.73	-97.85	poor fen	hummock	<i>fuscum</i>
11	Camill	2001	<i>Ecosystems</i>	permafrost plateau	55.73	-97.85	bog	hummock	<i>fuscum</i>
12	Camill	2001	<i>Ecosystems</i>	permafrost plateau	55.73	-97.85	bog	hummock	<i>fuscum</i>
13	Camill	2001	<i>Ecosystems</i>	collapse scar	55.73	-97.85	poor fen	hummock	<i>fuscum</i>
14	Lindholm	1990	<i>Ann Bot Fennici</i>	Laaviosuo	61.03	25	bog	hummock	<i>fuscum</i>
15	Lindholm	1990	<i>Ann Bot Fennici</i>	Laaviosuo	61.03	25	bog	hummock	<i>fuscum</i>
16	Lindholm	1990	<i>Ann Bot Fennici</i>	Laaviosuo	61.03	25	bog	hummock	<i>fuscum</i>
17	Lindholm	1990	<i>Ann Bot Fennici</i>	Laaviosuo	61.03	25	bog	hummock	<i>fuscum</i>
18	Asada	2003	<i>The Bryologist</i>	Diana Lake	54.22	-130.17	poor fen	hummock	<i>fuscum</i>
19	Camill	2001	<i>Ecosystems</i>	collapse scar	54.9	-98.63	poor fen	hummock	<i>fuscum</i>
20	Camill	2001	<i>Ecosystems</i>	permafrost plateau	54.9	-98.63	bog	hummock	<i>fuscum</i>
21	Camill	2001	<i>Ecosystems</i>	permafrost plateau	54.9	-98.63	bog	hummock	<i>fuscum</i>
22	Camill	2001	<i>Ecosystems</i>	collapse scar	54.9	-98.63	poor fen	hummock	<i>fuscum</i>
23	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 7	57.15	-110.87	bog	hummock	<i>fuscum</i>
24	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 7	57.15	-110.87	bog	hummock	<i>fuscum</i>
25	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 7	57.15	-110.87	bog	hummock	<i>fuscum</i>
26	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 7	57.15	-110.87	bog	hummock	<i>fuscum</i>

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					Y	X			
27	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 7	58.67	-112.27	bog	hummock	<i>fuscum</i>
28	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 7	58.67	-112.27	bog	hummock	<i>fuscum</i>
29	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 7	58.67	-112.27	bog	hummock	<i>fuscum</i>
30	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 7	58.67	-112.27	bog	hummock	<i>fuscum</i>
31	Camill	2001	<i>Ecosystems</i>	collapse scar	54.88	-100.02	poor fen	hummock	<i>fuscum</i>
32	Camill	2001	<i>Ecosystems</i>	permafrost plateau	54.88	-100.02	bog	hummock	<i>fuscum</i>
33	Camill	2001	<i>Ecosystems</i>	permafrost plateau	54.88	-100.02	bog	hummock	<i>fuscum</i>
34	Camill	2001	<i>Ecosystems</i>	collapse scar	54.88	-100.02	poor fen	hummock	<i>fuscum</i>
35	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 11	57.28	-111.23	bog	hummock	<i>fuscum</i>
36	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 11	57.28	-111.23	bog	hummock	<i>fuscum</i>
37	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 11	57.28	-111.23	bog	hummock	<i>fuscum</i>
38	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 11	57.28	-111.23	bog	hummock	<i>fuscum</i>
39	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 11	57.7	-111.9	bog	hummock	<i>fuscum</i>
40	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 11	57.7	-111.9	bog	hummock	<i>fuscum</i>
41	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 11	57.7	-111.9	bog	hummock	<i>fuscum</i>
42	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 11	57.7	-111.9	bog	hummock	<i>fuscum</i>
43	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 10	56.63	-110.2	bog	hummock	<i>fuscum</i>
44	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 10	56.63	-110.2	bog	hummock	<i>fuscum</i>
45	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 10	56.63	-110.2	bog	hummock	<i>fuscum</i>
46	Wieder	2010	<i>J of Paleolimn</i>	NE Fort McMurray 10	56.63	-110.2	bog	hummock	<i>fuscum</i>
47	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 10	57.32	-112.4	bog	hummock	<i>fuscum</i>
48	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 10	57.32	-112.4	bog	hummock	<i>fuscum</i>
49	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 10	57.32	-112.4	bog	hummock	<i>fuscum</i>
50	Wieder	2010	<i>J of Paleolimn</i>	Birch Mountains 10	57.32	-112.4	bog	hummock	<i>fuscum</i>
51	Robson	2003	<i>New Phytol</i>	Tierra del Fuego NP	54.85	-68.6	bog	lawn	<i>magellanicum</i>
52	Robson	2003	<i>New Phytol</i>	Tierra del Fuego NP	54.85	-68.6	bog	lawn	<i>magellanicum</i>
53	Robson	2003	<i>New Phytol</i>	Tierra del Fuego NP	54.85	-68.6	bog	lawn	<i>magellanicum</i>
54	Vitt	2003	<i>The Bryologist</i>	Anzac West	56.45	-111.05	bog	hummock	<i>fuscum</i>
55	Vitt	2003	<i>The Bryologist</i>	Anzac East	56.45	-111.03	bog	hummock	<i>fuscum</i>

ID	1 <sup>st</sup> author	Year published	Journal	site	coordinates		Peatland type	microform	<i>Sphagnum</i> species
					Y	X			
56	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 8	56.22	-111.2	bog	hummock	<i>fuscum</i>
57	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 9	56.22	-111.25	bog	hummock	<i>fuscum</i>
58	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 8	56.22	-111.2	bog	hummock	<i>fuscum</i>
59	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 9	56.22	-111.25	bog	hummock	<i>fuscum</i>
60	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 8	56.22	-111.2	bog	hummock	<i>fuscum</i>
61	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 9	56.22	-111.25	bog	hummock	<i>fuscum</i>
62	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 9	56.22	-111.25	bog	hummock	<i>fuscum</i>
63	Gunnarsson	2000	<i>New Phytol</i>	Luttumyr	61.03	13.37	bog	hummock	<i>magellanicum</i>
64	Gunnarsson	2000	<i>New Phytol</i>	Luttumyr	61.03	13.37	bog	hummock	<i>magellanicum</i>
65	Gunnarsson	2000	<i>New Phytol</i>	Luttumyr	61.03	13.37	bog	hummock	<i>magellanicum</i>
66	Vitt	2003	<i>The Bryologist</i>	Steppbank	56.88	-111.27	bog	hummock	<i>fuscum</i>
67	Camill	2001	<i>Ecosystems</i>	collapse scar	52.35	-94.7	poor fen	hummock	<i>fuscum</i>
68	Camill	2001	<i>Ecosystems</i>	permafrost plateau	52.35	-94.7	bog	hummock	<i>fuscum</i>
69	Camill	2001	<i>Ecosystems</i>	permafrost plateau	52.35	-94.7	bog	hummock	<i>fuscum</i>
70	Camill	2001	<i>Ecosystems</i>	collapse scar	52.35	-94.7	poor fen	hummock	<i>fuscum</i>
71	Granath	2010	<i>Ecology</i>	Hallefjard	60.5	17.95	rich fen	hollow	<i>fuscum</i>
72	Granath	2010	<i>Ecology</i>	Hallefjard	60.5	17.95	rich fen	lawn	<i>fuscum</i>
73	Granath	2010	<i>Ecology</i>	Hallefjard	60.5	17.95	rich fen	hummock	<i>fuscum</i>
74	Wieder	2010	<i>J of Paleolimn</i>	W Fort McMurray 4	57.15	-111.98	bog	hummock	<i>fuscum</i>
75	Wieder	2010	<i>J of Paleolimn</i>	W Fort McMurray 4	57.15	-111.98	bog	hummock	<i>fuscum</i>
76	Wieder	2010	<i>J of Paleolimn</i>	W Fort McMurray 4	57.15	-111.98	bog	hummock	<i>fuscum</i>
77	Wieder	2010	<i>J of Paleolimn</i>	W Fort McMurray 4	57.15	-111.98	bog	hummock	<i>fuscum</i>
78	Vitt	2003	<i>The Bryologist</i>	Thickwood Hills	56.78	-112.02	bog	hummock	<i>fuscum</i>
79	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 7	55.68	-111.83	bog	hummock	<i>fuscum</i>
80	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 7	55.68	-111.83	bog	hummock	<i>fuscum</i>
81	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 7	55.68	-111.83	bog	hummock	<i>fuscum</i>
82	Wieder	2010	<i>J of Paleolimn</i>	Stony Mountains 7	55.68	-111.83	bog	hummock	<i>fuscum</i>
83	Aerts	1992	<i>J of Ecol</i>	Akhul	57.08	14.5	bog	lawn	<i>magellanicum</i>
84	Aerts	2001	<i>J of Ecol</i>	Akhul	57.08	14.5	bog	lawn	<i>magellanicum</i>

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85	Berendse	2001	<i>Glob Ch Biol</i>	Kopparasmyren	57.13	14.5	bog	lawn	<i>magellanicum</i>
86	Berendse	2001	<i>Glob Ch Biol</i>	Kopparasmyren	57.13	14.5	bog	lawn	<i>magellanicum</i>
87	Bauer	2007	<i>Can J of Bot</i>	Old Black spruce	53.98	-105.11	poor fen	hummock	<i>fuscum</i>
88	Vitt	2003	<i>The Bryologist</i>	Wandering River	55.28	-112.47	bog	hummock	<i>fuscum</i>
89	Gunnarsson	2000	<i>New Phytol</i>	Akhultmyr	57.1	14.55	bog	hummock	<i>fuscum</i>
90	Gunnarsson	2000	<i>New Phytol</i>	Akhultmyr	57.1	14.55	bog	hummock	<i>fuscum</i>
91	Gunnarsson	2000	<i>New Phytol</i>	Akhultmyr	57.1	14.55	bog	hummock	<i>fuscum</i>
92	Wallen	1988	<i>Holarctic Ecol</i>	Akhultmyren	57.1	14.53	bog	hummock	<i>fuscum</i>
93	Wallen	1988	<i>Holarctic Ecol</i>	Akhultmyren	57.1	14.53	bog	hummock	<i>fuscum</i>
94	Wallen	1988	<i>Holarctic Ecol</i>	Akhultmyren	57.1	14.53	bog	hummock	<i>fuscum</i>
95	Gunnarsson	2000	<i>New Phytol</i>	Akhultmyr	57.1	14.55	bog	hummock	<i>magellanicum</i>
96	Gunnarsson	2000	<i>New Phytol</i>	Akhultmyr	57.1	14.55	bog	hummock	<i>magellanicum</i>
97	Gunnarsson	2000	<i>New Phytol</i>	Akhultmyr	57.1	14.55	bog	hummock	<i>magellanicum</i>
98	Wallen	1988	<i>Holarctic Ecol</i>	Akhultmyren	57.1	14.53	bog	hummock	<i>magellanicum</i>
99	Wallen	1988	<i>Holarctic Ecol</i>	Akhultmyren	57.1	14.53	bog	hummock	<i>magellanicum</i>
100	Wallen	1988	<i>Holarctic Ecol</i>	Akhultmyren	57.1	14.53	bog	hummock	<i>magellanicum</i>
101*	Hajek	2009	<i>Boreal Env Res</i>	Rokytecka slat	49.02	13.42	bog	hummock	<i>fuscum</i>
102*	Hajek	2009	<i>Boreal Env Res</i>	Rokytecka slat	49.02	13.42	bog	hummock	<i>magellanicum</i>
103	Thormann	1997	<i>Ecoscience</i>	Bog site	54.68	-113.35	bog	hummock	<i>fuscum</i>
104	Thormann	1997	<i>Ecoscience</i>	Bog site	54.68	-113.35	bog	hummock	<i>fuscum</i>
105	Vitt	2003	<i>The Bryologist</i>	Bleak Lake	54.68	-113.47	bog	hummock	<i>fuscum</i>
106	Robroek	2007	<i>Plant Ecol</i>	Mongan Bog	53.32	-7.97	bog	hummock	<i>fuscum</i>
107	Damman	1978	<i>Oikos</i>	Tranerods Mosse	56.08	13.17	bog	hummock	<i>fuscum</i>
108	Damman	1978	<i>Oikos</i>	Tranerods Mosse	56.08	13.17	bog	hummock	<i>magellanicum</i>
109	Rocheftort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	hummock	<i>fuscum</i>
110	Rocheftort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	hummock	<i>fuscum</i>
111	Rocheftort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	hummock	<i>fuscum</i>
112	Rocheftort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	hummock	<i>fuscum</i>
113	Rocheftort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	hummock	<i>fuscum</i>

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					Y	X			
114	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	hummock	<i>fuscum</i>
115	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	hummock	<i>fuscum</i>
116	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	hummock	<i>fuscum</i>
117	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	lawn	<i>magellanicum</i>
118	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	lawn	<i>magellanicum</i>
119	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	lawn	<i>magellanicum</i>
120	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	poor fen	lawn	<i>magellanicum</i>
121	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	lawn	<i>magellanicum</i>
122	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	lawn	<i>magellanicum</i>
123	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	lawn	<i>magellanicum</i>
124	Rochefort	1990	<i>Ecology</i>	Exp Lakes Area	49.67	-93.72	rich fen	lawn	<i>magellanicum</i>
125	Berendse	2001	<i>Glob Ch Biol</i>	Dwingeloo	52.82	6.42	bog	lawn	<i>magellanicum</i>
126	Berendse	2001	<i>Glob Ch Biol</i>	Dwingeloo	52.82	6.42	bog	lawn	<i>magellanicum</i>
127	Limpens	2004	<i>Ecosystems</i>	Clara Bog	52.32	7.6	bog	lawn	<i>magellanicum</i>
128	Limpens	2004	<i>Ecosystems</i>	Clara Bog	52.32	7.6	bog	lawn	<i>magellanicum</i>
129	Limpens	2004	<i>Ecosystems</i>	Clara Bog	52.32	7.6	bog	lawn	<i>magellanicum</i>
130	Limpens	2004	<i>Ecosystems</i>	Clara Bog	52.32	7.6	bog	lawn	<i>magellanicum</i>
131	Moore	2002	<i>J of Ecol</i>	Mer Bleue	45.68	-75.8	bog	hummock	<i>fuscum</i>
132	Moore	2002	<i>J of Ecol</i>	Mer Bleue	45.68	-75.8	bog	hollow	<i>magellanicum</i>
133	Chapin	2004	<i>Wetlands</i>	Toivola	47.18	-93.73	bog	hummock	<i>fuscum</i>
134	Chapin	2004	<i>Wetlands</i>	Toivola	47.18	-93.73	bog	hummock	<i>fuscum</i>
135	Chapin	2004	<i>Wetlands</i>	Toivola	47.18	-93.73	bog	hummock	<i>fuscum</i>
136	Grigal	1985	<i>Can J of Bot</i>	Marcel Exp Forest	46.5	-93.5	bog	hummock	<i>magellanicum</i>
137	Berendse	2001	<i>Glob Ch Biol</i>	Chaux-des-Breuleux	47.22	7.05	bog	lawn	<i>magellanicum</i>
138	Berendse	2001	<i>Glob Ch Biol</i>	Chaux-des-Breuleux	47.22	7.05	bog	lawn	<i>magellanicum</i>
139*	Gerdol	1995	<i>J of Ecol</i>	I Dossi	46.32	11.67	bog	hummock	<i>magellanicum</i>
140*	Gerdol	1995	<i>J of Ecol</i>	I Dossi	46.32	11.67	bog	hummock	<i>magellanicum</i>
141*	Gerdol	1995	<i>J of Ecol</i>	I Dossi	46.32	11.67	bog	hummock	<i>magellanicum</i>
142	Wieder	1983	<i>The Bryologist</i>	Big Run Bog	39.12	-79.58	bog	hummock	<i>magellanicum</i>

\* : high-elevation site

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