

Additional file 1

For article: The effect of buffer strip width and selective logging on streamside plant communities

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Table 1. Site information.

Table 2. Vascular plant species found in the study.

Table 3. Moss species found in the study.

Table 1. Information on the study sites: Municipality and name of the location, North and East coordinates in decimal degrees, width of the stream, and the logging treatment: buffer width and selective logging.

Site ID	Municipality	Name	N	E	Stream width (m)	Buffer width	Selective logging
1	Vieremä	Kellopuro	63.83188	26.94863	0.3	15	No
2	Pieksämäki	Koukunjoki	62.39258	26.93276	1.5	15	No
3	Vieremä	Puolinpuro1	63.98682	26.90886	0.5	15	Yes
4	Vieremä	Puolinpuro2	63.98945	26.89380	0.25	30	No
6	Vieremä	Kurkipuro	63.94052	26.66638	0.95	C	No
7	Suonenjoki	Haukipuro	62.60683	27.30495	4.25	30	Yes
8	Pielavesi	Leppipuro	63.39579	26.39757	0.2	15	Yes
15	Kaavi	Kalalamminpuro	63.11614	28.73192	0.55	30	Yes
16	Lieksa	Pieni Ruosmanjärvi 1 SE	63.46902	29.89890	0.45	30	No
17	Lieksa	Pieni Ruosmanjärvi 2 SE	63.46600	29.89691	1.55	15	Yes
18	Lieksa	Tetrikangas NW	63.46808	29.94605	0.3	30	Yes
19	Lieksa	Huosiopuro	63.49229	29.93862	0.65	C	No
20	Lieksa	Hanhilamminpuro	63.28729	30.34200	1.1	15	Yes
21	Lieksa	Palkinoja	63.23884	30.75467	1.6	C	No
22	Lieksa	Lavapuro	63.21131	30.22918	0.35	15	Yes
23	Äänekoski	Kivipuro	62.56329	25.51531	1.2	30	Yes
24	Pihtipudas	Valkeispuro	63.41049	26.05685	0.75	15	Yes
25	Kivijärvi	Kangaspuro	63.20412	24.90234	1.9	30	No
26	Korpilahti	Karhuoja	62.04014	25.42641	1.1	30	Yes
27	Leivonmäki	Väärämäki S	61.90145	25.92199	1.5	C	No
28	Leivonmäki	Hakosjärvi W	62.02793	26.18217	0.55	C	No
29	Korpilahti	Tuppela NE	62.21604	25.39608	0.8	15	No
31	Kuhmoinen	Nokiniemi SW	61.71589	24.93035	0.4	C	No
32	Orivesi	Jokisalo S	61.61620	24.20887	0.6	15	No
33	Karstula	Kurjuksenkulkku NE	62.97202	24.97654	1.65	30	Yes
34	Uurainen	Kivipuro	62.54641	25.48799	2.5	30	No
35	Sotkamo	Ruunapuro	63.93125	28.22158	3.2	C	No

Site ID	Municipality	Name	N	E	Stream width (m)	Buffer width	Selective logging
37	Rautavaara	Risupuro	63.40130	28.30241	1.2	15	No
38	Rautavaara	Nurmespuro	63.40632	28.20288	0.65	15	No
39	Rautavaara	Riitapuro	63.67432	28.56051	0.4	30	Yes
40	Rautavaara	Pieni Sammakkomäki S	63.66626	28.57471	0.2	30	No
41	Rautavaara	Mäntykangas N	63.69888	28.54942	1.05	C	No
42	Nurmes	Niinimäki E	63.56566	29.33364	0.55	30	Yes
43	Nurmes	Rajapuro	63.57713	29.50002	0.3	30	Yes
44	Nurmes	Venepuro	63.55592	29.45544	0.4	C	No
45	Rautavaara	Rinnepuro	63.59531	28.48888	2.05	C	No
47	Rautavaara	Pankapuro	63.63822	28.44861	0.75	C	No
48	Rautavaara	Ukonpuro	63.59369	28.45654	0.7	15	Yes
49	Nurmes	Kuomavaara N	63.78579	29.35355	0.7	15	Yes
50	Varpaisjärvi	Muuraispuro	63.52853	28.01496	0.4	30	No
51	Varpaisjärvi	Juudinsalo S	63.48378	28.04813	0.55	30	Yes
53	Karttula	Suojärvenpuro	62.74879	27.15719	0.95	C	No
56	Pieksämäki	Hietisenpuro	62.26919	26.99563	2.15	15	Yes

Table 2. Vascular plant species found in the study. The IUCN status in Finland is shown if it is other than LC (least concern): NT is nearly threatened. The number of sites where the species was observed is given (total number of sites was 43).

Species	Authors	Status	Sites
<i>Achillea ptarmica</i>	L.		2
<i>Aegopodium podagraria</i>	L.		1
<i>Agrostis canina</i>	L.		12
<i>Agrostis capillaris</i>	L.		3
<i>Agrostis stolonifera</i>	L.		2
<i>Angelica sylvestris</i>	L.		6
<i>Anthriscus sylvestris</i>	(L.) Hoffm.		1
<i>Athyrium filix-femina</i>	(L.) Roth		21
<i>Avenella flexuosa</i>	(L.) Drejer		34
<i>Calamagrostis arundinacea</i>	(L.) Roth		9
<i>Calamagrostis canescens</i>	(Weber) Roth		8
<i>Calamagrostis epigejos</i>	(L.) Roth		1
<i>Calamagrostis neglecta</i>	(Ehrh.) G. Gaertn., B. Mey. & Scherb.		6
<i>Calamagrostis phragmitoides</i>	Hartm.		29
<i>Calla palustris</i>	L.		4
<i>Caltha palustris</i>	L.		2
<i>Carex acuta</i>	L.		1
<i>Carex canescens</i>	L.		37
<i>Carex digitata</i>	L.		21
<i>Carex disperma</i>	Dewey	NT	9
<i>Carex echinata</i>	Murray		4
<i>Carex globularis</i>	L.		27
<i>Carex lasiocarpa</i>	Ehrh.		1
<i>Carex loliacea</i>	L.		8
<i>Carex nigra</i>	(L.) Reichard		9

Species	Authors	Status	Sites
<i>Carex pallescens</i>	L.		1
<i>Carex vaginata</i>	Tausch		7
<i>Chamaedaphne calyculata</i>	(L.) Moench		1
<i>Chamaenerion angustifolium</i>	(L.) Scop.		23
<i>Cirsium heterophyllum</i>	(L.) Hill		1
<i>Cirsium palustre</i>	(L.) Scop.		2
<i>Comarum palustre</i>	L.		9
<i>Convallaria majalis</i>	L.		3
<i>Cornus suecica</i>	L.		3
<i>Crepis paludosa</i>	(L.) Moench		5
<i>Deschampsia cespitosa</i>	(L.) P. Beauv.		23
<i>Dryopteris carthusiana</i>	(Vill.) H. P. Fuchs		33
<i>Dryopteris expansa</i>	(C. Presl) Fraser-Jenk. & Jermy		8
<i>Elymus caninus</i>	(L.) L.		1
<i>Epilobium palustre</i>	L.		2
<i>Equisetum arvense</i>	L.		1
<i>Equisetum palustre</i>	L.		7
<i>Equisetum pratense</i>	Ehrh.		2
<i>Equisetum sylvaticum</i>	L.		37
<i>Eriophorum vaginatum</i>	L.		1
<i>Filipendula ulmaria</i>	(L.) Maxim.		7
<i>Fragaria vesca</i>	L.		2
<i>Galeopsis bifida</i>	Boenn.		3
<i>Galium palustre</i>	L.		15
<i>Galium triflorum</i>	Michx.		1
<i>Geranium sylvaticum</i>	L.		4
<i>Geum rivale</i>	L.		3
<i>Goodyera repens</i>	(L.) R. Br.		4
<i>Gymnocarpium dryopteris</i>	(L.) Newman		39
<i>Hieracium vulgatum</i>	Fr.		2
<i>Juncus filiformis</i>	L.		4
<i>Linnaea borealis</i>	L.		42
<i>Luzula pilosa</i>	(L.) Willd.		27
<i>Lysimachia europaea</i>	(L.) U. Manns & Anderb.		43
<i>Lysimachia thyrsoflora</i>	L.		19
<i>Lysimachia vulgaris</i>	L.		1
<i>Maianthemum bifolium</i>	(L.) F. W. Schmidt		41
<i>Matteuccia struthiopteris</i>	(L.) Tod.		2
<i>Melampyrum pratense</i>	L.		1
<i>Melampyrum sylvaticum</i>	L.		23
<i>Melica nutans</i>	L.		15
<i>Molinia caerulea</i>	(L.) Moench		2
<i>Orthilia secunda</i>	(L.) House		31
<i>Oxalis acetosella</i>	L.		24
<i>Paris quadrifolia</i>	L.		7
<i>Peucedanum palustre</i>	(L.) Moench		4
<i>Phegopteris connectilis</i>	(Michx.) Watt		37
<i>Platanthera bifolia</i>	(L.) Rich.		2
<i>Poa pratensis</i>	L.		1

Species	Authors	Status	Sites
<i>Polypodium vulgare</i>	L.		1
<i>Potentilla erecta</i>	(L.) Raeusch.		1
<i>Prunella vulgaris</i>	L.		1
<i>Pyrola minor</i>	L.		5
<i>Pyrola rotundifolia</i>	L.		2
<i>Ranunculus repens</i>	L.		5
<i>Rubus arcticus</i>	L.		3
<i>Rubus chamaemorus</i>	L.		13
<i>Rubus idaeus</i>	L.		10
<i>Rubus saxatilis</i>	L.		24
<i>Rumex acetosa</i>	L.		2
<i>Scirpus sylvaticus</i>	L.		2
<i>Scutellaria galericulata</i>	L.		3
<i>Silene dioica</i>	(L.) Clairv.		1
<i>Solidago virgaurea</i>	L.		23
<i>Sparganium</i> sp.	L.		1
<i>Spinulum annotinum</i>	(L.) A. Haines		30
<i>Stellaria graminea</i>	L.		1
<i>Stellaria palustris</i>	Ehrh. ex Hoffm.		4
<i>Vaccinium myrtillus</i>	L.		42
<i>Vaccinium uliginosum</i>	L.		1
<i>Vaccinium vitis-idaea</i>	L.		43
<i>Veronica chamaedrys</i>	L.		2
<i>Veronica officinalis</i>	L.		3
<i>Viola x fennica</i>	F. Nyl.		1
<i>Viola epipsila</i>	Ledeb.		12
<i>Viola palustris</i>	L.		24
<i>Viola riviniana</i>	Rchb.		1

Table 3. Moss species found in the study. The IUCN status in Finland is shown if it is other than LC (least concern): NT is nearly threatened and VU is vulnerable. The number of sites where the species was observed is given (total number of sites was 43).

Species	Authors	Status	Sites
<i>Amblystegium</i> sp.	Schimp.		2
<i>Atrichum</i> sp.	P. Beauv.		17
<i>Aulacomnium androgynum</i>	(Hedw.) Schwägr.		5
<i>Aulacomnium palustre</i>	(Hedw.) Schwägr.		34
<i>Brachytheciastrum velutinum</i>	(Hedw.) Ignatov & Huttunen		4
<i>Brachythecium albicans</i>	(Hedw.) Schimp.		1
<i>Brachythecium salebrosum</i>	(Hoffm. ex F. Weber & D. Mohr) Schimp.		28
<i>Bryum</i> sp.	Hedw.		6
<i>Calliergon cordifolium</i>	(Hedw.) Kindb.		27
<i>Calliergon giganteum</i>	(Schimp.) Kindb.		1
<i>Campylium protensum</i>	(Brid.) Kindb.		1
<i>Ceratodon purpureus</i>	(Hedw.) Brid.		1
<i>Cinclidium stygium</i>	Sw.		4
<i>Cirriphyllum piliferum</i>	(Hedw.) Grout		5

Species	Authors	Status	Sites
<i>Climacium dendroides</i>	(Hedw.) F.Weber & D.Mohr		2
<i>Dichelyma falcatum</i>	(Hedw.) Myrin		1
<i>Dicranella</i> sp.	(Müll. Hal.) Schimp.		5
<i>Dicranum drummondii</i>	Müll.Hal.		1
<i>Dicranum flagellare</i>	Hedw.		3
<i>Dicranum flexicaule</i>	Brid.		1
<i>Dicranum fuscescens</i>	Sm.		37
<i>Dicranum majus</i>	Sm.		43
<i>Dicranum montanum</i>	Hedw.		11
<i>Dicranum polysetum</i>	Sw. ex anon.		40
<i>Dicranum scoparium</i>	Hedw.		40
<i>Ditrichum</i> sp.	Timm ex Hampe		1
<i>Drepanocladus</i> sp.	(Müll. Hal.) G. Roth		4
<i>Fontinalis dalecarlica</i>	Schimp.		1
<i>Hylocomiastrum umbratum</i>	(Hedw.) M.Fleisch.		6
<i>Hylocomium splendens</i>	(Hedw.) Schimp.		43
<i>Hypnum</i> sp.	Hedw.		3
<i>Isopterygiopsis pulchella</i>	(Hedw.) Z.Iwats.		1
<i>Leptobryum pyriforme</i>	(Hedw.) Wilson		1
<i>Mnium hornum</i>	Hedw.		3
<i>Mnium marginatum</i>	(Dicks.) P.Beauv.		1
<i>Mnium stellare</i>	Hedw.		1
<i>Paraleucobryum longifolium</i>	(Hedw.) Loeske		5
<i>Philonotis fontana</i>	(Hedw.) Brid.		1
<i>Plagiomnium cuspidatum</i>	(Hedw.) T.J.Kop.		15
<i>Plagiomnium drummondii</i>	(Bruch & Schimp.) T.J.Kop.	VU	1
<i>Plagiomnium ellipticum</i>	(Brid.) T.J.Kop.		17
<i>Plagiomnium medium</i>	(Bruch & Schimp.) T.J.Kop.		11
<i>Plagiomnium undulatum</i>	(Hedw.) T.J.Kop.		2
<i>Plagiothecium cavifolium</i>	(Brid.) Z.Iwats.		7
<i>Plagiothecium denticulatum</i> var. <i>denticulatum</i>	(Hedw.) Schimp.		26
<i>Plagiothecium denticulatum</i> var. <i>undulatum</i>	R.Ruthe ex Geh.		3
<i>Plagiothecium laetum</i>	Schimp.		43
<i>Plagiothecium latebricola</i>	Schimp.	NT	1
<i>Plagiothecium succulentum</i>	(Wilson) Lindb.		6
<i>Pleurozium schreberi</i>	(Willd. ex Brid.) Mitt.		43
<i>Pogonatum urnigerum</i>	(Hedw.) P.Beauv.		1
<i>Pohlia bulbifera</i>	(Warnst.) Warnst.		2
<i>Pohlia cruda</i>	(Hedw.) Lindb.		3
<i>Pohlia nutans</i>	(Hedw.) Lindb.		29
<i>Pohlia wahlenbergii</i>	(F.Weber & D.Mohr) A.L.Andrews		1
<i>Polytrichastrum</i> sp.	G.L. Sm.		31
<i>Polytrichum commune</i>	Hedw.		40
<i>Polytrichum juniperinum</i>	Hedw.		7
<i>Pseudobryum cinclidioides</i>	(Huebener) T.J.Kop.		37
<i>Pseudotaxiphyllum elegans</i>	(Brid.) Z.Iwats.		1
<i>Ptilium crista-castrensis</i>	(Hedw.) De Not.		14
<i>Racomitrium</i> sp.	Brid.		3
<i>Rhizomnium magnifolium</i>	(Horik.) T.J.Kop.		1

Species	Authors	Status	Sites
Rhizomnium pseudopunctatum	(Bruch & Schimp.) T.J.Kop.		17
Rhizomnium punctatum	(Hedw.) T.J.Kop.		26
Rhodobryum roseum	(Hedw.) Limpr.		19
Rhytidiadelphus subpinnatus	(Lindb.) T.J.Kop.		5
Rhytidiadelphus triquetrus	(Hedw.) Warnst.		19
Sanionia uncinata	(Hedw.) Loeske		37
Sciuro-hypnum curtum	(Lindb.) Ignatov		31
Sciuro-hypnum plumosum	(Hedw.) Ignatov & Huttunen		1
Sciuro-hypnum populeum	(Hedw.) Ignatov & Huttunen		1
Sciuro-hypnum reflexum	(Starke) Ignatov & Huttunen		35
Sciuro-hypnum starkei	(Brid.) Ignatov & Huttunen		40
Sphagnum angustifolium	(C.E.O.Jensen ex Russow) C.E.O.Jensen		23
Sphagnum capillifolium	(Ehrh.) Hedw.		10
Sphagnum centrale	C.E.O.Jensen		11
Sphagnum fallax	(H.Klinggr.) H.Klinggr.		6
Sphagnum girgensohnii	Russow		42
Sphagnum magellanicum	Brid.		3
Sphagnum papillosum	Lindb.		6
Sphagnum quinquefarium	(Braithw.) Warnst.		1
Sphagnum riparium	Ångstr.		9
Sphagnum rubellum	Wilson		1
Sphagnum russowii	Warnst.		9
Sphagnum squarrosum	Crome		27
Sphagnum wulfianum	Girg.		14
Straminergon stramineum	(Dicks. ex Brid.) Hedenäs		11
Tetraphis pellucida	Hedw.		36
Warnstorfia sp.	Loeske		6