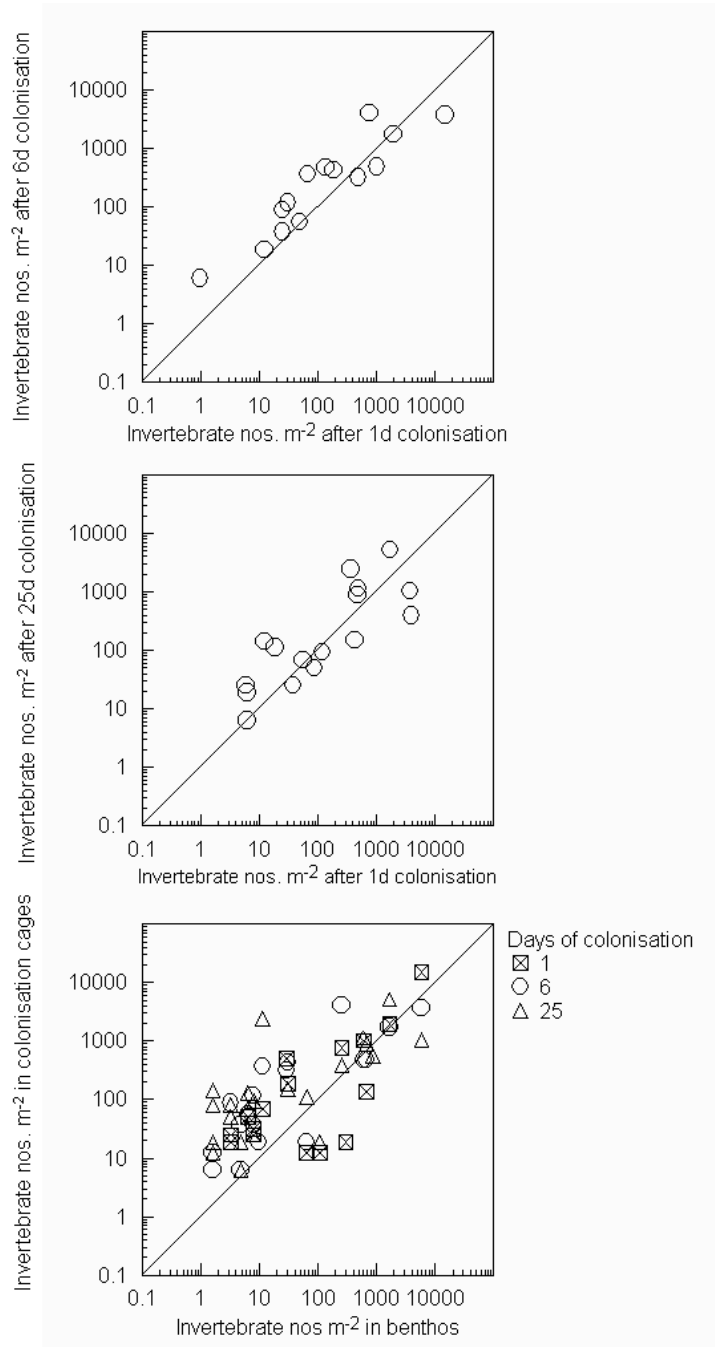


Woodward, G., Papantoniou, G., Edwards, F. and Lauridsen, R. B. 2008. Trophic trickles and cascades in a complex food web: impacts of a keystone predator on stream community structure and ecosystem processes. – *Oikos* 117: 683–692.

Appendix 1a. Abundances of common invertebrates in control “unseeded” colonisation cages after 1, 6 and 25 days of exposure and in the benthos (zero counts have been excluded). Diagonal lines represent 1:1 relationships.



Appendix 1b. Absolute mean abundances m⁻² in the benthos at the start and end of the field experiment and densities in experimental enclosure/exclosure cages. See Methods for details.

Taxon	Ambient (1d)	Ambient (28d)	Mean Ambient	Enclosures (28d)	Exclosures (28d)
<i>Baetis sp. Lv.</i>	3483.20	5844.80	4664.00	6270.06	6133.93
<i>Gammarus pulex</i>	1611.20	1681.60	1646.40	6791.25	9427.50
<i>Potamopyrgus antipodarum</i>	1000.00	673.60	836.80	348.75	485.00
Oligochaeta indet.	801.60	862.40	832.00	408.75	478.75
<i>Serratella ignita Lv.</i>	163.20	601.60	382.40	2583.69	3184.82
Chironomidae indet. Lv.	304.00	265.60	284.80	1665.00	1526.25
<i>Ancylus fluviatilis</i>	380.80	88.00	234.40	157.50	133.75
Simuliidae indet. Lv.	275.20	28.80	152.00	477.50	331.25
<i>Agapetus sp. Lv.</i>	4.80	299.20	152.00	0.00	0.00
<i>Dicranota sp. Lv.</i>	76.80	40.00	58.40	38.75	48.75
<i>Silo sp. Lv.</i>	0.00	107.20	53.60	0.00	0.00
<i>Elmis aenea Lv.</i>	24.89	64.00	44.44	95.00	121.25
<i>Hydropsyche indet. Lv.</i>	44.44	30.40	37.42	37.50	11.25
<i>Pisidium sp.</i>	46.00	9.60	27.80	12.50	18.75
<i>Caenis sp Lv.</i>	41.60	1.60	21.60	0.00	0.00
<i>Glossiphonia complanata</i>	8.00	24.00	16.00	0.00	0.00
<i>Leuctra sp. Lv.</i>	19.20	8.00	13.60	56.25	55.00
<i>Heptagenia sulphurea Lv.</i>	9.60	8.00	8.80	25.00	35.00
<i>Limnius volckmari Lv.</i>	10.67	4.80	7.73	20.00	11.25
<i>Erpobdella octoculata</i>	0.00	9.60	4.80	0.00	0.00
<i>Ephemera danica Lv.</i>	1.60	6.40	4.00	0.00	0.00
<i>Hydracarina indet.</i>	0.00	6.40	3.20	0.00	0.00
Ceratopogonidae indet. Lv.	0.00	4.80	2.40	0.00	0.00
Nematoda indet.	0.00	4.80	2.40	0.00	0.00
<i>Platambus maculatus Lv.</i>	0.00	4.80	2.40	0.00	0.00
<i>Oulimnius sp. Lv.</i>	1.60	1.60	1.60	6.25	7.50
<i>Asellus aquaticus</i>	0.00	3.20	1.60	0.00	0.00
Chironomidae indet. P.	0.00	3.20	1.60	0.00	0.00
Cladocera indet.	0.00	3.20	1.60	0.00	0.00
<i>Rhyacophila dorsalis Lv.</i>	1.60	0.00	0.80	0.00	0.00
<i>Helobdella stagnalis</i>	0.00	1.60	0.80	0.00	0.00
<i>Hemerodromia sp. Lv.</i>	0.00	1.60	0.80	0.00	0.00
<i>Hydra sp.</i>	0.00	1.60	0.80	0.00	0.00
<i>Limnius volckmari Ad.</i>	0.00	1.60	0.80	0.00	0.00
<i>Limnophora sp. Lv.</i>	0.00	1.60	0.80	0.00	0.00
<i>Platambus maculatus Ad.</i>	0.00	1.60	0.80	0.00	0.00
<i>Rhyacophila sp. Lv.</i>	0.00	1.60	0.80	0.00	0.00
TOTAL	8310.00	10702.40	9506.20	18993.75	22010.00

Appendix 2a. Food web data for the Bere Stream. Vertices refer to species nodes 1-142 and in the pairwise columns the left-hand data refer to resources and the right hand to consumers. The data sources for nodes and links are listed in Methods.

*Vertices 142

- 1 "Hydridae"
- 2 "Ostracoda"
- 3 "Copepoda"
- 4 "Cladocera"
- 5 "Tubificidae"
- 6 "*Polycelis nigra*"
- 7 "*Asellus aquaticus*"
- 8 "*Potamopyrgus antipodarum*"
- 9 "*Polycelis felina*"
- 10 "*Gammarus pulex*"
- 11 "Enchytraeus_grp."
- 12 "*Lumbriculus variegatus*"
- 13 "*Dendrocoelom lacteum*"
- 14 "FPOM"
- 15 "CPOM"
- 16 "*N. gregaria*"
- 17 "*N. menisculis*"
- 18 "*N. tripunctata*"
- 19 "*N. lanceolata*"
- 20 "*A. pediculis*"
- 21 "*D. vulgaris*"
- 22 "*G. olivaceum*"
- 23 "*F. elliptica*"
- 24 "*F. vaucheriae*"
- 25 "*C. placentula*"
- 26 "*N. dissipata*"
- 27 "*N. perminuta*"
- 28 "*M. varians*"
- 29 "*C. solea*"
- 30 "*R. curvata*"
- 31 "*G. incrustans*"
- 32 "Fungi"
- 33 "*Chroococcus*"
- 34 "*Spirulina*"
- 35 "*Lymnaea palustris*"
- 36 "*A. ovalis*"
- 37 "*A. lanceolata*"
- 38 "*A. elliptica*"
- 39 "*F. leptostauron*"
- 40 "*S. ovalis*"
- 41 "*C. minuta*"
- 42 "*Gyrosigma*"
- 43 "Fungal_spores"
- 44 "algal_cysts"
- 45 "*Physa fontinalis*"
- 46 "*Ancylus fluviatilis*"
- 47 "*Sphaerium corneum*"
- 48 "*Pisidium milium*"
- 49 "*C. lanceolata*"
- 50 "*Pisidium subtruncatum*"
- 51 "*Pisidium nitidum*"
- 52 "*Nais alpina*"

53 "*S. ulva*"
54 "*Nais elinguis*"
55 "*Stylaria lacustris*"
56 "*Tubifex ignotus*"
57 "*Psammoryctides barbatus*"
58 "*Limnodrilus hoffmeisteri*"
59 "*Spirosperma ferox*"
60 "*Spirosperma velutinous*"
61 "*Aulodrilus plurisetia*"
62 "*Propappus volki*"
63 "*Stylodrilus heringianus*"
64 "*Stilodrilus brachystylus*"
65 "Lumbricidae"
66 "*Piscicola geometra*"
67 "*Gasterosteus*"
68 "*Lampetra planeri*"
69 "*Salmo trutta*"
70 "*Anguilla anguilla*"
71 "*Cottus gobio*"
72 "*Theromyzon tessulatum*"
73 "*Ephemera vulgata*"
74 "*Simulium (Wilhemia) sp.*"
75 "*Simulium (Simulium) ornatum grp*"
76 "Dicranota"
77 "Protozoa"
78 "*Goera sp.*"
79 "*Silo sp.*"
80 "*Agapetus sp.*"
81 "*Glossiphonia complanata*"
82 "*Helobdella stagnalis*"
83 "*Erpobdella octoculata*"
84 "*Asellus meridianus*"
85 "*Baetis vernus*"
86 "*Baetis rhodani*"
87 "*Heptagenia sulphurea*"
88 "*Paraleptophlebia submarginata*"
89 "*Paraleptophlebia cincta*"
90 "*Seratella ignita*"
91 "*Ephemera danica*"
92 "*Caenis luctuosa*"
93 "*Caenis rivulorum*"
94 "*Nemurella pictetii*"
95 "*Leuctra geniculata*"
96 "*Leuctra fusca*"
97 "*Isoperla grammatica*"
98 "*Rhyacophila dorsalis*"
99 "*Brillia modesta*"
100 "*Macropelopia*"
101 "*Calopteryx splendens*"
102 "*Velia caprai*"
103 "Terrestrial invertebrates"
104 "*Brychius elevatus*"
105 "*Apsectrotanypus trifascipennis*"
106 "*Thiennemannimyia grp*"
107 "*Oreodytes sanmarkii*"
108 "*Agabus didymus*"
109 "*Limnephilus lunatus*"

110 "Corixidae"
 111 "Ilybius sp."
 112 "Sialis lutaria"
 113 "Ceratopogonidae"
 114 "Hydracarina"
 115 "Platambus maculatus"
 116 "Prodiamesa olivacea"
 117 "Polypedilum sp."
 118 "Micropsectra sp."
 119 "Helophorus brevipalpis"
 120 "Elmis aenea"
 121 "Limnius volckmari"
 122 "Sisyra sp."
 123 "Lype reducta"
 124 "Hydropsyche pellucidula"
 125 "Hydropsyche siltalai"
 126 "Drusus annulatus"
 127 "Potamophylax cingulatus"
 128 "Halesus radiatus"
 129 "Odontocerum albicorne"
 130 "Lepidostoma hirtum"
 131 "Brachycentrus subnubilus"
 132 "Sericostoma personatum"
 133 "Brillia longifurca"
 134 "Limnophila"
 135 "Pericoma trivialis"
 136 "Eukiefferiella grp"
 137 "Paracladius conversus"
 138 "Tvetenia calvescens"
 139 "Rheotanytarsus"
 140 "Oxycera sp."
 141 "Hemerodromia grp"
 142 "Atalanta grp"

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Appendix 2b. Numbers of links and species in a set of highly-resolved freshwater food webs. See Methods for details.

Food web	Habitat	Taxonomic S	Taxonomic L	Trophic S	Trophic L	Reference
Tuesday Lake 1986	Lake	51	236	20	52	Jonsson et al 2005
Tuesday Lake 1984	Lake	50	264	21	67	Jonsson et al 2005
Canton Creek	Stream	108	1455	102	697	Townsend et al., 1998
Stony Stream	Stream	112	1880	109	829	Townsend et al., 1998
Little Rock Lake	Lake	182	2371	92	997	Martinez, 1991
Lake Tahoe	Lake			172	3885	Dunne et al., 2002b
Mirror Lake	Lake			172	4322	Dunne et al., 2002b
Bridge Brook Lake	Lake	75	555	25	107	Havens, 1992
Skipwith Pond	Lake	37	351	25	197	Warren, 1989, 1994
Felbrigg Pond	Lake	63	540			Woodward et al unpublished data
Selbrigg Lake	Lake	75	805			Woodward et al unpublished data
Arctic stream web 1	Stream	47	238			Parker & Huryh 2006
Arctic stream web 2	Stream	42	188			Parker & Huryh 2006
Broadstone Stream summary web 1974-1997	Stream	61	401	61	401	Woodward et al 2005
Broadstone Stream Web 2a pre-invasion	Stream	33	146	26	97	Woodward et al 2005
Broadstone Stream summary web 1996-7	Stream	28	131	23	109	Woodward et al 2005
Broadstone Web 2b post-invasion	Stream	34	170	27	112	Woodward et al 2005
Broadstone 1985	Stream	24	109	18	63	Woodward et al 2005
Broadstone 1995	Stream	25	128	19	76	Woodward et al 2005
Blackrock	Stream	87	859			Townsend et al., 1998
Broad	Stream	95	1278			Townsend et al., 1998
Dempsters	Stream	107	1783			Townsend et al., 1998
German	Stream	86	820			Townsend et al., 1998
Healy	Stream	96	1131			Townsend et al., 1998
Kye Burn	Stream	98	1503			Townsend et al., 1998
Little Kye Burn	Stream	78	770			Townsend et al., 1998
Sutton	Stream	92	1144			Townsend et al., 1998
Bere	Stream	142	1383	135	1376	Current study (Woodward et al)
Duffin Creek	Stream	42	193			Tavares-Cromar & Williams 1996