

Impacts of an extreme flood on the ecosystem of a headwater stream

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A complete list of macroinvertebrate data from 8 samples from the HPO stream, 2010 – 2012 (the double line splits the sampling to the period before and after the studied flood, numbers indicate total number of individuals in each species/taxon: OLI – Oligochaeta, ODO – Odonata, EPH – Ephemeroptera, PLE – Plecoptera, TRI – Trichoptera, DIP – Diptera, families Athericidae, Cecidomyiidae, Ceratopogonidae, Chironomidae, Dixidae, Empididae, Limoniidae, Pediciidae, Simuliidae, COL – Coleoptera, HET – Heteroptera, families and species are sorted in alphabetic order, N – total number of individuals, S – total number of taxa, D_{SE} – Shannon entropy, D_{SC} – Simpson concentration).

Group	Family	Species/Taxon	Sampling date							
			18-Mar-10	27-Apr-10	28-Jul-10	5-Sep-10	16-Oct-10	4-May-11	13-Oct-11	29-Oct-12
OLI			3	1		1	1	2	10	
ODO		<i>g.sp.juv.</i>							1	
EPH	Baetidae	<i>Baetis rhodani</i>						2		
EPH	Leptophlebiidae	<i>Leptophlebia marginata</i>	2						1	11
EPH	Siphonuridae	<i>Siphonurus aestivalis</i>						8		
EPH	Siphonuridae	<i>Siphonurus sp.juv.</i>							1	
PLE	Chloroperlidae	<i>Siphonoperla torrentium</i>	30	28					9	47
PLE	Leuctridae	<i>Leuctra nigra</i>	36	53	201	46	1	35	24	73
PLE	Leuctridae	<i>Leuctra pseudosignifera</i>	8	6		2		10		3
PLE	Leuctridae	<i>Leuctra major</i>	6							
PLE	Leuctridae	<i>Leuctra prima</i>	12							
PLE	Leuctridae	<i>Leuctra aurita</i>			64					
PLE	Leuctridae	<i>Leuctra autumnalis</i>								1
PLE	Leuctridae	<i>Leuctra sp.</i>	13	59				15	57	74
PLE	Nemouridae	<i>Nemurella pictetii</i>	9	4	5	3		9	37	20
PLE	Nemouridae	<i>Nemoura uncinata</i>	45	12						
PLE	Nemouridae	<i>Nemoura marginata</i>	30	8					1	
PLE	Nemouridae	<i>Nemoura cambrica</i>	75	20						
PLE	Nemouridae	<i>Nemoura cinerea</i>							110	
PLE	Nemouridae	<i>Protonemura auberti</i>	85	105	10			1	58	1
PLE	Nemouridae	<i>Protonemura sp.juv.</i>	180	439	28	1			71	
PLE	Nemouridae	<i>g.sp.juv.</i>	8	9	8	12		30		191
PLE	Perlodidae	<i>Diura bicaudata</i>			2					48
TRI	Lepidostomatidae	<i>Crunoecia irrorata</i>	2	1						
TRI	Limnephilidae	<i>Chaetopteryx villosa</i>			1					
TRI	Limnephilidae	<i>Drusus annulatus</i>		1						3
TRI	Limnephilidae	<i>Potamophylax cf. cingulatus</i>	8	4						
TRI	Limnephilidae	<i>Potamophylax nigricornis</i>								10
TRI	Limnephilidae	<i>Limnephilinae g.sp.juv.</i>	4	32	6	1	14	19		21
TRI	Odontoceridae	<i>Odontocerum albicorne</i>	1		1					
TRI	Philopotamidae	<i>Philopotamus ludificatus</i>	2	1						
TRI	Polycentropodidae	<i>Plectrocnemia conspersa</i>	7	12	5	2	1	17		20
TRI	Polycentropodidae	<i>Plectrocnemia cf. geniculata</i>							1	2
TRI	Polycentropodidae	<i>Plectrocnemia sp.juv.</i>		10	4	3	4	1		170
TRI	Rhyacophilidae	<i>Rhyacophila cf. polonica</i>		2						1
TRI	Rhyacophilidae	<i>Rhyacophila sp.juv.</i>		6	2					
TRI	Sericostomatidae	<i>Sericostoma cf. personatum</i>	7	7	2				1	2
DIP	Athericidae	<i>Ibisia marginata</i>	4	5	1					
DIP	Cecidomyiidae		1							
DIP	Ceratopogonidae		10	8	14				2	2
DIP	Chironomidae	<i>Brilia bifida</i>	5		2					
DIP	Chironomidae	<i>Corynoneura cf. lobata</i>	3	4					1	2
DIP	Chironomidae	<i>Corynoneura scutellata group</i>			4					
DIP	Chironomidae	<i>Diamesa dampfi / permacra</i>							5	1
DIP	Chironomidae	<i>Diamesa zernyi group</i>		1					8	
DIP	Chironomidae	<i>Endochironomus sp.</i>								1
DIP	Chironomidae	<i>Eukiefferiella cf. brevicealcar</i>	2	9					1	
DIP	Chironomidae	<i>Georthocladius sp.</i>				1		1		
DIP	Chironomidae	<i>Heleniella sp.</i>		1	2					
DIP	Chironomidae	<i>Heterotanytarsus apicalis</i>	10	11	1	4			11	2
DIP	Chironomidae	<i>Heterotrissocladius marcidus</i>	2	1	96				2	
DIP	Chironomidae	<i>Hydrobaenus lugubris group</i>	1	6					2	
DIP	Chironomidae	<i>Chaetocladius piger group</i>							10	
DIP	Chironomidae	<i>Limnophyes sp.</i>			1					
DIP	Chironomidae	<i>Macropelopia sp.</i>			5					
DIP	Chironomidae	<i>Metricnemus sp.</i>	1							1
DIP	Chironomidae	<i>Micropsectra cf. aristata</i>	46	7	103				6	6
DIP	Chironomidae	<i>Micropsectra sp.</i>								1
DIP	Chironomidae	<i>Paratrissocladius skirwithensis</i>	1	6					1	
DIP	Chironomidae	<i>Polypedilum sp. A</i>			2				1	1
DIP	Chironomidae	<i>Polypedilum sp. B</i>								1
DIP	Chironomidae	<i>Prodiamesa olivacea</i>			11					3
DIP	Chironomidae	<i>Psectrocladius limbatellus group</i>	1			3	2		2	
DIP	Chironomidae	<i>Pseudodiamesa branickii</i>							24	
DIP	Chironomidae	<i>Stempellinella sp.</i>		7					1	1
DIP	Chironomidae	<i>Thienemanniella cf. partita</i>	12	5						
DIP	Chironomidae	<i>Trissopelopia longimana</i>	11	54	206				21	89
DIP	Chironomidae	<i>Tvetenia bavarica group</i>	1	1						1
DIP	Chironomidae	<i>Zavrelimyia sp.</i>			6				20	62
DIP	Dixidae		1		1					
DIP	Empididae	<i>Chelifera sp.</i>		6	1				1	1
DIP	Limoniidae	<i>Euphyllidorea sp.+Philidorea sp.</i>						1		2
DIP	Limoniidae	<i>Eloophila sp.</i>	1	2	1	1		1		2
DIP	Limoniidae	<i>Rhypholophus sp.</i>	2							
DIP	Pediciidae	<i>Pedicia (P.) sp.</i>	2		2					3
DIP	Pediciidae	<i>Dicranota sp.</i>	1	2	23	1	1	2		2

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			18-Mar-10	27-Apr-10	28-Jul-10	5-Sep-10	16-Oct-10	4-May-11	13-Oct-11	29-Oct-12	
DIP	pupae							9			
DIP	Simuliidae		330	347	25		1	10	3		
COL	Dytiscidae	<i>Agabus</i> sp. (larva)	1	1	7		1	4	2	5	
COL	Dytiscidae	<i>Agabus</i> sp. (imago)		1					4		
COL	Dytiscidae	<i>Hydroporus</i> sp. (larva)								1	
COL	Elmidae	<i>Limnius</i> sp. (larva)		9							
COL	Elmidae	<i>Limnius perrisi</i> (imago)		1							
COL	Elmidae	<i>Limnius volckmari</i> (imago)		1							
COL	Hydraenidae	<i>Hydraena</i> cf. <i>gracilis</i> (imago)			2						
COL	Hydrophilidae	<i>Limnebius</i> sp. (imago)			1		1				
COL	Scirtidae	<i>Odeles marginata</i> (larva)	29	12	33		3	1	10	6	
HET	Veliidae	<i>Velia caprai</i>			2			1			
N			1048	1327	891		86	128	563	830	839
S			46	47	38		18	17	41	38	30
Dse			13	10	11		6	8	17	11	8
Dsc			7	5	7		3	6	11	8	5

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