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## SUPPLEMENTARY MATERIAL

## Estimating aquatic invertebrate diversity in the southern Alps using data from Biodiversity Days

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Site	year	latitude	longitude	habitat
S1	2001	46.6979252	12.2188225	river
	-	46.7057388	12.2179325	lake
S2	2002	46.2727957	11.3706028	river A
	_	46.2769384	11.3604992	river B
S3	2004	46.5302836	11.5852767	river
		46.5375099	11.516493	pond A
	-	46.5383452	11.5138138	pond B
S4	2007	46.5082342	11.6902811	river A
		46.5135408	11.6922975	river B
	_	46.523581	11.523447	pond
S5	2008	46.8151895	10.4903645	river A
		46.826821	10.485566	river B
		46.8342139	10.4901599	river C
S6	2009	46.8107008	11.9165482	river A1
		46.8085906	11.9252547	river A2
		46.8102806	11.9404177	river B
		46.8086356	11.9292976	river C
S7	2011	46.6181929	10.448001	river A
		46.6512154	10.482358	river B
		46.6645514	10.5043699	river C
S8	2012	46.9269699	11.2761398	river A
		46.9423733	11.2536504	river B
S9	2013	46.6412571	11.9346873	river A
		46.6420311	11.9379736	river B
S10	2014	46.5033046	11.1379533	river A
		46.5149105	11.1329821	river B
		46.4968633	11.1638816	pond
S11	2015	46.7607007	11.3657989	river A
		46.7729598	11.3653008	river B1
		46.7802256	11.3539191	river B2
S12	2016	46.7614118	10.7033492	river A1
		46.7006376	10.6288366	river A10
		46.6704108	10.5939778	river A11
		46.74456	10.7024553	river A2
		46.7426999	10.6998452	river A3
		46.7421022	10.6993186	river A4
		46.7410872	10.6980679	river A5
		46.7302124	10.6860969	river A6
		46.729513	10.6854386	river A7
		46.7188953	10.6620737	river A8
		46.7112355	10.6472088	river A9
		46.7614333	10.7030126	river B
		46.7443952	10.7029994	river C
S13	2017	46.6414295	11.5692939	river A
		46.6546455	11.5607011	river B1
			11.5674877	

Tab. S1. The location (latitude and longitude, WGS84) and habitat types of study sites.

Order	Family	Genus	Species
Turbellaria	Planariidae	Crenobia	alpina
Newstein	Planariidae	Polycelis	sp.
Nematomorpha	Gordiidae	Gordius	cf. aquaticus
Nematoda	Dorylaimidae	Dorylaimus	stagnalis
Gastropoda	Lymnaeidae	Radix	balthica
	Lymnaeidae	Radix	labiata
	Planorbidae	Anisus	vortex
	Planorbidae	Gyraulus	sp.
	Planorbidae	Hippeutis	complanatus
Bivalvia	Sphaeriidae	Pisidium	sp.
	Sphaeriidae	Sphaerium	sp.
	Unionidae	Anodonta	sp.
Oligochaeta	Enchytraeidae	Cognettia	glandulosa
	Enchytraeidae	Cernosvitoviella	atrata
	Enchytraeidae	Fridericia	sp.
	Enchytraeidae	Henlea	sp.
	Enchytraeidae	Lumbricillus	sp.
	Enchytraeidae	Marionina	riparia
	Enchytraeidae	Mesenchytraeus	armatus
	Haplotaxidae	Haplotaxis	gordioides
	Lumbricidae	Eiseniella	tetraedra
	Lumbriculidae	Lumbriculus	variegatus
	Lumbriculidae	Stylodrilus	heringianus
	Naididae	Dero	sp.
	Naididae	Nais	barbata
	Naididae	Nais	bretscheri
	Naididae	Nais	communis
	Naididae	Nais	elinguis
	Naididae	Nais	pardalis
	Naididae	Nais	stolci
	Naididae	Nais	variabilis
	Naididae	Pristina	aequiseta
	Naididae	Pristinella	-
			jenkinae annandiaulata
	Naididae	Slavina	appendiculata
	Naididae	Stylaria	lacustris
	Tubificidae	Ilyodrilus	templetoni
	Tubificidae	Limnodrilus	hoffmeisteri
	Tubificidae	Potamothrix	hammoniensis
	Tubificidae	Tubifex	tubifex
Hirudinea	Erpobdellidae	Erpobdella	octoculata
	Erpobdellidae	Erpobdella	testacea
	Glossiphoniidae	Alboglossiphonia	cf. hyalina
	Glossiphoniidae	Glossiphonia	sp.
Acari (Hydrachnidia)	Hydryphantidae	Protzia	invalvaris
	Hygrobatidae	Atractides	sp.
	Hygrobatidae	Hygrobates	norvegicus
	Lebertiidae	Lebertia	maculosa
	Lebertiidae	Lebertia	maglioi
		reticulata	
	Lebertiidae	Lebertia	sp.
	Sperchontidae	Sperchon	brevirostris
	Sperchontidae	Sperchon	chupeifer
	Sperchontidae	Sperchon	denticulatus-Gr.
	Sperchontidae	Sperchon	glandulosus
	Sperchontidae	Sperchon	hispidus
	Torrenticolidae	Torrenticola	elliptica
	Astacidae		
Crustaceae	Astacidae	Pacifastacus	leniusculus
	Paatidaa	Paotic	alminur
	Baetidae	Baetis Baetis	alpinus luthari Cr
Crustaceae Ephemeroptera	Baetidae Baetidae Baetidae	Baetis Baetis Baetis	alpinus lutheri-Gr. melanonyx

 Table S2. List of identified taxa during Biodiversity Days between 2001 and 2017.

Database         Database         Database           Bacitidae         Bacitis         vermas           Continued)         Bacitidae         Controgitium           Bacitidae         Controgitium         Intelohum           Cacitidae         Clocon         dipteram           Cacitidae         Clocon         dipteram           Cacitidae         Caconis         hebritous-Cac           Heptageniidae         Ecdyonurus         testidae           Heptageniidae         Ecdyonurus         testidae           Heptageniidae         Epoerns         assimilis           Heptageniidae         Ribitrogena         alpestris           Heptageniidae         Ribitrogena         alpestris           Heptageniidae         Ribitrogena         inpestris           Heptageniidae         Ribitrogena         inpestris           Heptageniidae         Ribitrogena         inpestris           Heptageniidae         Ribitrogena         inpotestris           Heptageniidae         Ribitrogena         patestris           Heptageniidae         Ribitrogena         patestris           Heptageniidae         Ribitrogena         patestris           Heptageniidae         Calopterx         verano		Baetidae	Baetis	muticus
Ephemeroptera (continued)         Bactidae         Bactidae         Controptilum         Interchant           Continued)         Bacidae         Controptilum         Interchant         Interchant           Ephemerellidae         Ephemarellidae         Ephemarellidae         Interchant           Ephemerellidae         Ecdyonurus         Interchant         Interchant           Heptageniidae         Ecdyonurus         Venositi         Interchant           Heptageniidae         Ecdyonurus         Venositi         Interchant           Heptageniidae         Epoorus         alpicola         Interchant           Heptageniidae         Epoorus         alpicola         Interchant           Heptageniidae         Epoorus         alpicola         Interchant           Heptageniidae         Rhithrogena         degrangei         Interchant           Heptageniidae         Rhithrogena         gratinapoolitanajoohalensis           Heptageniidae         Rhithrogena         semicolorata-Gr.           Leptopliebidiae         Habroleptoidae         Sp.           Odonata         Colorergionalae         Calorerys         Virgo           Contagrionalae         Colorigenia         semicolorata-Gr.           Coloroperiidae         Calopterysidae<				
(continued)     Baetidae     Canon     duteolum       Baetidae     Closon     duteolum       Caenidae     Closon     duteolum       Ephemerellidae     Echomurs     helvittus-Gr.       Heptageniidae     Echomurs     pictett       Heptageniidae     Echomurs     effettageniidae       Echomurs     effettageniidae     Echomurs       Heptageniidae     Echomurs     effettageniidae       Heptageniidae     Echomurs     effettageniidae       Heptageniidae     Epeorus     astimilis       Heptageniidae     Rhithrogena     alpestris       Heptageniidae     Rhithrogena     gheartis       Heptageniidae     Rhithrogena     modennosis       Heptageniidae     Rhithrogena     hybrida-Gr.       Heptageniidae     Rhithrogena     putch       Heptageniidae     Rhithrogena     putch       Heptageniidae     Rhithrogena     putch       Heptageniidae     Rhithrogena     putch       Gonata     Calopteryschae     corbilae       Coenagrionidae     Coenagrionidae     congrom       Coenagrionidae     Coenagrionidae     conduitae-Gr.       Coenagrionidae     Coenagrion     putch       Coenagrionidae     Coenagrion     putch	Ephemeroptera		_	
Bacitáze         Cacani         diperam           Cacitáze         Caentis         horaria           Ephemerellidae         Echomurus         hebetaca-Gr.           Heptageniidae         Echomurus         hebetaca-Gr.           Heptageniidae         Echomurus         hebetaca-Gr.           Heptageniidae         Echomurus         venosus           Heptageniidae         Epeorus         alpicola           Heptageniidae         Epeorus         alpicola           Heptageniidae         Epeorus         aspiritis           Heptageniidae         Rhithrogena         degrangel           Heptageniidae         Rhithrogena         endenensis           Heptageniidae         Rhithrogena         grangel           Heptageniidae         Rhithrogena         grancolatanopolitana/podhalensis           Heptageniidae         Rhithrogena         grancolata-Gr.           Heptageniidae         Rhithrogena         putchi           Heptageniidae         Rhithrogena         putchi           Gapticageniidae         Caloptarygidae         Caloptarygidae           Caloptarygidae         Caloptarygidae         Caloptarygidae           Caloptarygidae         Caloptarygidae         Caloptarygidae           <	• •			
Caenidae         Caenis         Avaria           Ephemerellidae         Ephemerellia         Ignita           Heptageniidae         Ecdyonnus         hebeticus-Gr.           Heptageniidae         Ecdyonnus         picteti           Heptageniidae         Ecdyonnus         picteti           Heptageniidae         Epoorus         atsimulis           Heptageniidae         Epoorus         atsimulis           Heptageniidae         Epoorus         atsimulis           Heptageniidae         Rhithrogena         depastris           Heptageniidae         Rhithrogena         endenensis           Heptageniidae         Rhithrogena         opticha           Heptageniidae         Rhithrogena         pictal           Heptageniidae         Rhithrogena         pictal           Heptageniidae         Rhithrogena         pictal           Heptageniidae         Rhithrogena         pictal           Golonata         Calopterygidae         cochaligrad         cochaligrad           Odonata         Calopterygidae         cochaligrad         cjuthigerum           Coenagronidae         Coongrad         ciphonagerum         ciphonagerum           Coenagronidae         Coongrad         ciphonagerum <th>(,</th> <th></th> <th>-</th> <th>-</th>	(,		-	-
Ephemerilidae         Ephemerilidae         Ephemerilidae           Heptageniidae         Ecdyommus         pictut           Heptageniidae         Ecdyommus         pictut           Heptageniidae         Ecdyommus         classition           Heptageniidae         Epeorus         alpicola           Heptageniidae         Epeorus         alpicola           Heptageniidae         Epeorus         asimilis           Heptageniidae         Rhithrogena         dipastris           Heptageniidae         Rhithrogena         dipastris           Heptageniidae         Rhithrogena         figastris           Sipblouridae         Siphlouridae         figastris           Calopteryidae         Calopteryidae         Calopteryidae           Conagrondae         Corduita         aenae           Conduitae         Locutra         sp.           Choroperidae         Sphonoperia		***************************************		
Heptageniidae         Ecdyonurus         hebvetica-Gr.           Heptageniidae         Ecdyonurus         picteli           Heptageniidae         Ecdyonurus         venosus           Heptageniidae         Epeorus         alpicola           Heptageniidae         Epeorus         assimilis           Heptageniidae         Epeorus         assimilis           Heptageniidae         Rhithrogena         dipastris           Heptageniidae         Rhithrogena         gratinopolitana/podhalensis           Heptageniidae         Rhithrogena         pibrida-Gr.           Heptageniidae         Rhithrogena         pibrida-Gr.           Heptageniidae         Rhithrogena         pibrida-Gr.           Heptageniidae         Rhithrogena         pibrida-Gr.           Leptophebibidae         Sphlonurus         lacustris           Heptageniidae         Shithrogena         pibrida-Gr.           Coenagrionidae         Sanna         cf. cyonea           Aeshnidae         Asina         cf. cyonea           Aeshnidae         Asina         cf. cyonea           Aeshnidae         Coenagrionidae         pibrida-Gr.           Coenagrionidae         Coenagrionidae         pibrida-Gr.           Coenagrioni				
Heptageniidae         Ecdyonurus         picteti           Heptageniidae         Ecdyonurus         cf. selleri           Heptageniidae         Epeorus         astimitis           Heptageniidae         Epeorus         astimitis           Heptageniidae         Epeorus         astimitis           Heptageniidae         Rhithrogena         alpestris           Heptageniidae         Rhithrogena         degrangei           Heptageniidae         Rhithrogena         edgrangei           Heptageniidae         Rhithrogena         grationopolitana/podialensis           Odonata         Calopterygidae         Calopteryx         virgo           Coenagrionidae         Coenagrionidae         Coenagrionidae         Coenagrionidae           Conduidae         Aeshina         cf. cyunea         Aeshinaie           Anex         imperator				······································
Heptageniidae         Ecdyomurus         f. renosus           Heptageniidae         Epeorus         alpicola           Heptageniidae         Epeorus         assimilis           Heptageniidae         Epeorus         spikola           Heptageniidae         Robernis         spikola           Heptageniidae         Rhithrogena         alpastris           Heptageniidae         Rhithrogena         endemensis           Heptageniidae         Rhithrogena         endemensis           Heptageniidae         Rhithrogena         pixchi           Heptageniidae         Caloptryxi         Viyo           Coenagronidae         Caloptryxi         Viyo           Coenagronidae         Coenagronidae         Coenagronidae           Aeshnidae         Aasima         cf. cyama           Aeshnidae         Coenagronidae         fixo           Choroperlidae         Sp.         Choroperlidae           Choroperlidae         Sp.         Chioroperlidae </th <th></th> <th></th> <th></th> <th>picteti</th>				picteti
Heptageniidae     Ecoromus     cf. zelleri       Heptageniidae     Epeorus     asstmilis       Heptageniidae     Epeorus     asstmilis       Heptageniidae     Rhithrogena     degrangel       Heptageniidae     Rhithrogena     degrangel       Heptageniidae     Rhithrogena     epestris       Heptageniidae     Rhithrogena     pratamopolitana'podhalensis       Siphlonuridae     Rhithrogena     pratamopolitana'podhalensis       Gorotaita     Calopterygidae     Calopterygidae     calopterygidae       Calopterygidae     Calopterygidae     Calopterygidae     caromita       Corotaitae     Anstra     mperataro     corotaita       Corotaitae     Capitae     Sp.     Chitorope			Ecdyomurus	venosus
Heptageniidae         Épeorus         atsmitis           Heptageniidae         Epeorus         sylvicola           Heptageniidae         Rhithrogena         algestris           Heptageniidae         Rhithrogena         adgestris           Heptageniidae         Rhithrogena         gratianopolitana/podhalensis           Heptageniidae         Rhithrogena         plovlaea           Heptageniidae         Rhithrogena         loyolaea           Heptageniidae         Rhithrogena         putchi           Heptageniidae         Rhithrogena         putchi           Heptageniidae         Rhithrogena         putchi           Heptageniidae         Sphlonurusia         accustris           Odonata         Colonationurus         cacustris           Coenagrionidae         Coenagrionidae         contalua           Coenagrionidae         Coenagrioni         puella-Gr.           Cordulidae         Assinidae         Anx         Imperator           Condulidae         Cordulia         aenea         Libelluida           Libelluidae         Louctria         alpina           Leuctridae         Lauctra         najor           Choroperlidae         Siphonoperla         montana		Heptageniidae	Ecdyomurus	cf. zelleri
Heptageniidae         Eperns         sybicola           Heptageniidae         Rhithrogena         alpestris           Heptageniidae         Rhithrogena         algerangei           Heptageniidae         Rhithrogena         andenexis           Heptageniidae         Rhithrogena         andenexis           Heptageniidae         Rhithrogena         pyotaco           Heptageniidae         Rhithrogena         pyotaco           Heptageniidae         Rhithrogena         putzhi           Heptageniidae         Rhithrogena         putzhi           Heptageniidae         Rhithrogena         putzhi           Heptageniidae         Calopterysidae         Semicolorata-Gr.           Lipophlebiidae         Coanagrionidae         Coanagrionidae           Coenagrionidae         Coangrofon         puella-Gr.           Coenagrionidae         Libelhila         depressa           Acshiidae         Aashna         cf. cynea           Acshiidae         Aashna         cf. cynea           Acshiidae         Capita         sp.           Chioroperiidae         Cibinorgeria         sp.           Chioroperiidae         Sp.         Chioroperia           Nemouridae         Nemoura <t< th=""><th></th><th>Heptageniidae</th><th>Epeorus</th><th>alpicola</th></t<>		Heptageniidae	Epeorus	alpicola
Heptagemidae         Rhithrogena         dipertris           Heptagemidae         Rhithrogena         degrangei           Heptagemidae         Rhithrogena         gratianopolitana/podhalensis           Heptagemidae         Rhithrogena         gratianopolitana/podhalensis           Heptagemidae         Rhithrogena         loyolaea           Heptagemidae         Rhithrogena         phytride-Gr.           Heptagemidae         Rhithrogena         putchi           Heptagemidae         Rhithrogena         putchi           Heptagemidae         Rhithrogena         putchi           Siphlonuridae         Calopterygidae         Calopterygidae           Conagrionidae         Conagrionidae         Calopterygidae           Coenagrionidae         Congeria         puella-Gr.           Coenagrionidae         Conduita         aenea           Libelhilda         Assina         cf.         cyunigae           Acshindae         Anax         imperator         corduitia           Actinidae         Alax         imperator         corduitia           Coroperia         Sp.         cf.         chioroperidae           Luctridae         Lauctra         montana         Leuctridae           Lauctridae		Heptageniidae	Epeorus	assimilis
Heptagemiidae         Rhithrogena         degrangei           Heptagemiidae         Rhithrogena         endenensis           Heptagemiidae         Rhithrogena         hybrida-Gr.           Heptagemiidae         Rhithrogena         puthi           Heptagemiidae         Raitinaa         sp.           Coenagrionidae         Colonata         Iocitatistis           Coenagrionidae         Coenagrioni         sp.           Cordulidae         Aeshnida         desena           Aeshnidae         Aasina         cf. cyanea           Aeshnidae         Laeutri         sp.           Chloroperlidae         Chloroperla         sp.           Chloroperlidae         Sp.         Chloroperla			•	sylvicola
Heptageniidae         Rhithrogena         endensits           Heptageniidae         Rhithrogena         Inportatanopolitana/podhalensis           Heptageniidae         Rhithrogena         Inportata-Gr.           Heptageniidae         Rhithrogena         Ioyoleae           Heptageniidae         Rhithrogena         Ioyoleae           Heptageniidae         Rhithrogena         semicolorata-Gr.           Leptophlebiidae         Siphlonuridae         Spinorenza           Odonata         Calopteryrgidae         Calopteryra         vrgo           Coenagrionidae         Coalagieryx         vrgo         Cocagiron           Coenagrionidae         Coenagrion         puella-Gr.         Cocagiron           Cordulidae         Aeshna         cf. cyanea         Aeshnidae         Aeshna           Actinidae         Anax         imperator         Cordulina         aenea           Libelhildae         Libelhila         depressa         Geniidae         Sp.         Chioroperlidae         Sp.           Chioroperlidae         Suctra         major         Nemouridae         Amphinemura         sp.           Nemouridae         Amphinemura         standfussi         Nemouridae         Nemourida           Nemouridae			-	-
Heptagemidae         Rhithrogena         gratianopolitana/podhalensis           Heptagemidae         Rhithrogena         hybrida-Gr.           Heptagemidae         Rhithrogena         putzhi           Heptagemidae         Rhithrogena         putzhi           Heptagemidae         Rhithrogena         putzhi           Heptagemidae         Rhithrogena         semicolorata-Gr.           Leptophilebiidae         Habroleptoides         sp.           Siphloauridae         Sphlonurus         lacustris           Odonata         Coloptrygidae         Calapteryx         virgo           Coenagrionidae         Loenagrioni         puella-Gr.           Coenagrionidae         Conagrioni         sp.           Aeslmidae         Aashna         cf. cyanea           Aeslmidae         Aashna         cf. cyanea           Aeslmidae         Aashna         sp.           Chloroperiidae         Capnia         sp.           Chloroperiidae         Spihonora         sp.           Chloroperiidae         Spihonora         cf. crambrica           Heptagemidae         Nemoura         alpina           Leuctridae         Lauctra         major           Nemouridae         Nemoura			-	0 0
Heptageniidae Heptageniidae         Rhithrogena Rhithrogena         Ioyolaea           Heptageniidae         Rhithrogena         Ioyolaea           Heptageniidae         Rhithrogena         semicolorata-Gr.           Leptophlebiidae         Siphlonuridae         Siphlonuridae           Odonata         Calopterygidae         Calopteryx         virgo           Coenagrionidae         Coenagrionidae         Cyahigerum           Coenagrionidae         Coenagrionidae         Cyana           Cordulidae         Aeshina         cf. cymea           Aeshnidae         Anax         imperator           Cordulidae         Cordulia         aenea           Libellulidae         Libellulia         depressa           Plecoptera         Capnidae         Capinidae         Sp.           Chioroperlidae         Suphonoperla         montana           Leuctridae         Lauctra         alpina           Leuctridae         Lauctra         major           Nemouridae         Nemoura         fortaera           Nemouridae         Nemoura         obtasa           Nemouridae         Nemoura         alpina           Leuctridae         Amoura         cf. Cambrica           Nemouridae <th></th> <th></th> <th></th> <th></th>				
Heptageniidae         Rhithrogena         Ioyolaaa           Heptageniidae         Rhithrogena         putzhi           Heptageniidae         Rhithrogena         putzhi           Leptophlebiidae         Rhithrogena         semicolorata-Gr.           Odonata         Calopterygidae         Calopteryx         virgo           Ocenagrionidae         Conagrionidae         Conagrionidae         Conagrionidae           Coenagrionidae         Lochura         sp.         Asshnidae           Aeshnidae         Anax         imperator           Cordulidae         Corbulida         aenea           Libelhilidae         Libelhilida         depressa           Plecoptera         Capnidae         Gapnia         sp.           Chloroperlidae         Capnia         sp.         Chloroperlidae           Leuctridae         Lauctra         alpina         Leuctridae           Leuctridae         Lauctra         major         Nemouridae           Nemouridae         Nemoura         cfloraperla         Potonemura           Nemouridae         Nemoura         cfloraperla         Sp.           Chloroperlidae         Lauctra         major         Nemouridae           Nemouridae         Nemoura				· · ·
Heptageniidae         Rhithrogena         putchi           Heptageniidae         Rhithrogena         semicolorata-Gr.           Leptophlebiidae         Habroleptoidae         Sp.           Odonata         Calopterygidae         Calopteryx         virgo           Coenagrionidae         Ecaligraa         cynthigerum           Coenagrionidae         Coenagrionidae         f.           Coenagrionidae         Corthuita         acestriae           Coenagrionidae         Corthuita         acestriae           Construitae         Corthuita         acestriae           Aeshnidae         Aashna         cf. cyanea           Acshnidae         Corthuita         acence           Chloroperlidae         Capniidae         Capniida           Chloroperlidae         Sphonoperla         montana           Leuctridae         Leuctra         alpina           Leuctridae         Leuctra         major           Nemouridae         Nemoura         cf. cambrica           Nemouridae         Nemoura         obtusa           Nemouridae         Nemoura         obtusa           Nemouridae         Nemoura         obtusa           Nemouridae         Nemoura         obtusa			-	
Heptageniidae         Rhithrogena         semicolorata-Gr.           Leptophlebiidae         Habroleptoides         sp.           Odonata         Calopterygidae         Calopteryx         Virgo           Coenagrionidae         Enallagma         Cyathigerum           Coenagrionidae         Lacustris         puella-Gr.           Coenagrionidae         Lichnura         sp.           Aeshnidae         Anax         imperator           Cordulidae         Corbuila         aenea           Libelluidae         Corbuila         aenea           Conduidae         Capnidae         Sp.           Chloroperidae         Sp.         Chloroperidae           Chloroperidae         Sp.         Chloroperidae           Leuctridae         Leuctra         major           Nemouridae         Amphinemura         standfüssi           Nemouridae         Nemoura         obtua           Nemouridae         Nemoura         aberti           Nemouridae         Nemoura         aberti           Nemouridae         Nemoura         abbra           Nemouridae         Nemoura         abbra           Nemouridae         Nemoura         abbtua           Nemouridae		10		
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Corixidae     Gerris     sp.       Mesoveliidae     Mesovelia     furcata       Velidae     Velia     caprai / saulii       Coleoptera     Chrysomelidae     Donacia     sp.       Dytiscidae     Agabus     sp.       Dytiscidae     Graptodytes     sp.       Dytiscidae     Hydroporus     cf. discretus				sp.
Mesoveliidae     Mesovelia     furcata       Velidae     Velia     caprai / saulii       Coleoptera     Chrysomelidae     Donacia     sp.       Dytiscidae     Agabus     sp.       Dytiscidae     Graptodytes     sp.       Dytiscidae     Hydroporus     cf. discretus	Heteroptera			punctata
Velidae         Velia         caprai / saulii           Coleoptera         Chrysomelidae         Donacia         sp.           Dytiscidae         Agabus         sp.           Dytiscidae         Graptodytes         sp.           Dytiscidae         Hydroporus         cf. discretus				
Coleoptera         Chrysomelidae         Donacia         sp.           Dytiscidae         Agabus         sp.           Dytiscidae         Graptodytes         sp.           Dytiscidae         Hydroporus         cf. discretus				
DytiscidaeAgabussp.DytiscidaeGraptodytessp.DytiscidaeHydroporuscf. discretus				
Dytiscidae Graptodytes sp. Dytiscidae Hydroporus cf. discretus	Coleoptera			
Dytiscidae Hydroporus cf. discretus			-	-
				-
Dytiscidae Oreodytes sanmarkii		L RATICCIASE	HUMMONOPUS	CT AISCRADIS

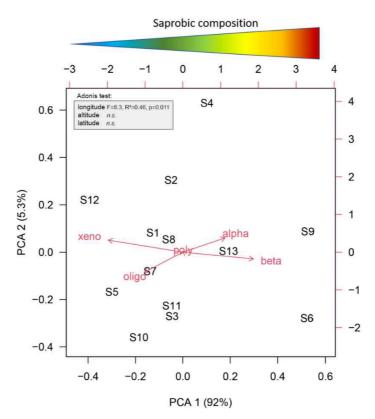
Diptera	Athericidae Athericidae Blephariceridae	Ibisia Liponeura	marginata cinarescens
Diptera			
Dintouc	A the activity of a -	Atherix	ibis
	Sericostomatidae	Sericostoma Athorix	personatum ibis
	Sericostomatidae	Sericostoma	flavicorne/personatum
	Rhyacophilidae	Rhyacophila	s.stri.sp.
	Rhyacophilidae	Rhyacophila	tristis
	Rhyacophilidae	Rhyacophila	torrentium
	Rhyacophilidae Rhyacophilidae	Rhyacophila Rhyacophila	pubescens stigmatica
	Rhyacophilidae Rhyacophilidae	Rhyacophila Rhyacophila	polonica/praemorsa
	Rhyacophilidae	Rhyacophila	mubila/vulgaris
	Rhyacophilidae	Rhyacophila	mubila/dorsalis
	Rhyacophilidae	Rhyacophila	laevis
	Rhyacophilidae	Rhyacophila	intermedia
	Rhyacophilidae	Rhyacophila	hirticornis
	Rhyacophilidae	Rhyacophila	fasciata
	Rhyacophilidae Rhyacophilidae	Rhyacophila Rhyacophila	aquitanica/tristis dorsalis
	Psychomyiidae	Tinodes Physican hile	cf. dives
	Polycentropodidae	Plectrocnemia	cf. geniculata
	Polycentropodidae	Plectrocnemia	conspersa
	Polycentropodidae	Holocentropus	dubius
	Polycentropodidae	Cyrnus	trimaculatus
	Polycentropodidae	Cyrmus	cf. insolutus
	Phryganeidae	Phryganea	cf. grandis
	Philopotamidae Philopotamidae	wormalaia Wormaldia	copiosa subnigra
	Philopotamidae Philopotamidae	Philopotamus Wormaldia	montanus
	Philopotamidae Philopotamidae	Philopotamus Philopotamus	ludificatus
	Odontoceridae	Odontocerum	albicorne
	Limnephilidae	Pseudopsilopteryx	zimmeri
	Limnephilidae	Potamophylax	cf. luctuosus
	Limnephilidae	Potamophylax	cingulatus
	Limnephilidae	Metanoea	rhaetica
	Limnephilidae	Metanoea	flavipennis
	Limnephilidae	Melampophylax	nunatus melampus
	Limnephilidae Limnephilidae	Halesus Limnephilus	rubricollis lunatus
	Limnephilidae	Halesus Halesus	radiatus muhricollic
	Limnephilidae	Halesus	digitatus
	Limnephilidae	Grammotaulius	nitidus
	Limnephilidae	Ecclisopteryx	sp. juv.
	Limnephilidae	Drusus	monticolus
	Limnephilidae	Drusus	discolor
	Limnephilidae	Drusus	biguttatus
	Limnephilidae Limnephilidae	Allogamus Chaetopteryx	uncatus fusca/villosa
	Limnephilidae	Allogamus	auricollis uncatus
	Limnephilidae	Acrophylax	zerberus
	Leptoceridae	Mystacides	azureus
	Hydropsychidae	Hydropsyche	tenuis
	Hydropsychidae	Hydropsyche	instabilis
	Hydropsychidae	Hydropsyche	bulbifera
	Glossosomatidae Goeridae	Glossosoma Lithax	conforme niger
	Glossosomatidae	Agapetus	ochripes
Trichoptera	Brachycentridae	Ecnomus	sp.
	Hydrophilidae	Elodes	sp.
	Hydrophilidae	Helophorus	sp.
	Hydrophilidae	Enochrus	sp.
Coleoptera (continued)	Helodidae Helodidae	Helodes Hvdraena	sp. lapidicola
<b></b>	Elmidae	Limnius	perrisi
	Elmidae	Esolus	parallelepipedus
	Elmidae	Elmis	latreillei

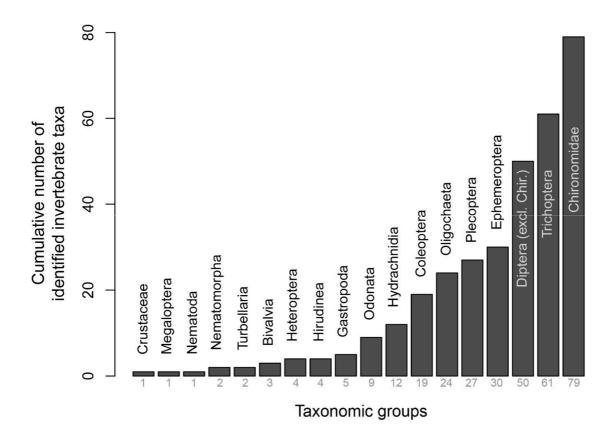
Ceratopogonidae Chaoboridae	Ceratopogonidae Chaoborus	Gen. sp. crystallimus
Chaoboridae	Chaoborus	flavicans
Chironomidae	Ablabesmyia	longistyla
Chironomidae	Ablabesmyia	monilis
Chironomidae	Brillia	bifida
Chironomidae	Chaetocladius	sp.
Chironomidae	Cladopelma	laccophila-Gr.
Chironomidae	Corynoneura	lobata
Chironomidae	Cricotopus	sylvestris
Chironomidae	Cryptochironomus	sp.
Chironomidae	Diamesa	sp. cinerella-Gr.
Chironomidae	Diamesa	dampfi-Gr.
Chironomidae	Diamesa	cf. hamaticornis
Chironomidae	Diamesa	insignipes
Chironomidae	Diamesa	latitarsis-Gr.
Chironomidae	Diamesa	steinboecki
Chironomidae	Diamesa	zemyi-Gr.
Chironomidae	Dicrotendipes	cf. tritomus
Chironomidae	Endochironomus	albipennis
Chironomidae	Endochironomus	tendens
Chironomidae	Eukiefferiella	brehmi
Chironomidae	Eukiefferiella	brevicalcar
Chironomidae		
Chironomidae	Eukiefferiella Eukiefferiella	cyanea fittkaui/minor
Chironomidae	Eukiefferiella	fuldensis
Chironomidae	Eukiefferiella	
Chironomidae	Eukiefferiella	gracei tirolensis
Chironomidae	Guttipelopia	
Chironomidae	Heleniella	guttipennis
Chironomidae		sp.
	Krenopelopia Vrenopeostra	sp.
Chironomidae	Krenopsectra	sp.
Chironomidae Chironomidae	Macropelopia Micropecture	sp.
	Micropsectra	atrofasciata aggr.
Chironomidae	Micropsectra	fusca
Chironomidae	Microtendipes	chloris-Gr.
Chironomidae	Microtendipes	pedellus-Gr.
Chironomidae Chironomidae	Monopelopia Nanocladius	temuicalcar bicolor
Chironomidae	Orthocladius	rivicola-Gr.
Chironomidae	er meet datab	
Chironomidae	Orthocladius	rivulorum
end energie	Orthocladius	saxosus
Chironomidae	Orthocladius	thienemanni
Chironomidae	Orthocladius	luteipes
Chironomidae	Orthocladius	frigidus
Chironomidae	Parachironomus	arcuatus-Gr.
Chironomidae	Parachironomus	vitiosus-Gr.
Chironomidae	Paracladopelma	camptolabis-Gr.
Chironomidae	Paracricotopus	niger
Chironomidae	Parametriocnemus	stylatus
Chironomidae	Paratanytarsus	sp.
Chironomidae	Paratrichocladius	nivalis
Chironomidae	Paratrichocladius	rufiventris
Chironomidae	Parorthocladius	nudipennis
Chironomidae	Polypedilum	laetum
Chironomidae	Polypedilum	mubeculosum
Chironomidae	Polypedilum	convictum
Chironomidae	Polypedilum	cultellatum
Chironomidae	Procladius	sp.
Chironomidae	Prodiamesa	olivacea
Chironomidae	Pseudodiamesa	branickii
Chironomidae	Psectrocladius	sordidellus-Gr.
Chironomidae	Rheocricotopus	effusus
Chironomidae	Rheocricotopus	fuscipes
	•	nigricauda
Chironomidae	Kneolanylarsus	monound
Chironomidae Chironomidae	Rheotanytarsus Tanypus Tanypus)	kraatzi

Diptera (continued)

Diptera	Chironomidae Chironomidae Chironomidae	Tvetenia Tvetenia Zavrelimyia	bavarica calvescens sp.
(continued)	Dixidae	Dixa	puberula
	Empididae	Chelifera	sp.
	Limoniidae	Antocha	sp.
	Limoniidae	Eloeophila	sp.
	Limoniidae	Hexatoma	sp.
	Limoniidae	Molophilus	sp.
	Limoniidae	Rhabdomastix	sp.
	Limoniidae	Rhypholophus	sp.
	Muscidae	Lispe	sp.
	Pediciidae	Dicranota	sp.
	Psychodidae	Bazarella	sp.
	Psychodidae	Berdeniella	freyi-Gr.
	Psychodidae	Berdeniella	helvetica-Gr.
	Psychodidae	Berdeniella	cf. unispinosa
	Rhagionidae	Rhagionidae	Gen. sp.
	Simuliidae	Prosimulium	fulvipes
	Simuliidae	Prosimulium	latimucro
	Simuliidae	Prosimulium	rufipes
	Simuliidae	Simulium	angustipes
	Simuliidae	Simulium	cf. brevidens
	Simuliidae	Simulium	carpathicum
	Simuliidae	Simulium	carthusiense
	Simuliidae	Simulium	cf. argyreatum
	Simuliidae	Simulium	cf. monticola
	Simuliidae	Simulium	ornatum/intermedium
	Simuliidae	Simulium	variegatum-Gr.
	Stratiomyidae	Oxycera	sp.
	Tabanidae	Tabanidae	Gen. sp.
	Thaumaleidae	Thaumalea	sp.
	Tipulidae	Tipula	sp.
Megaloptera	Sialidae	Sialis	sp.

**Figure S1.** Ordination (PCA) of the saprobic composition of EPT-communities (Ephemeroptera-Plecoptera-Trichoptera) in all sites with explanatory power of geographic features (Adonis-test). xeno=xenosaprobic, oligo=oligosaprobic, alpha=alphasaprobic, beta=betasaprobic, poly=polysaprobic.





**Figure S2.** Cumulative number of identified invertebrate taxa per taxonomic group in the region South Tyrol (northern Italy) during Biodiversity Days (2001 - 2017).