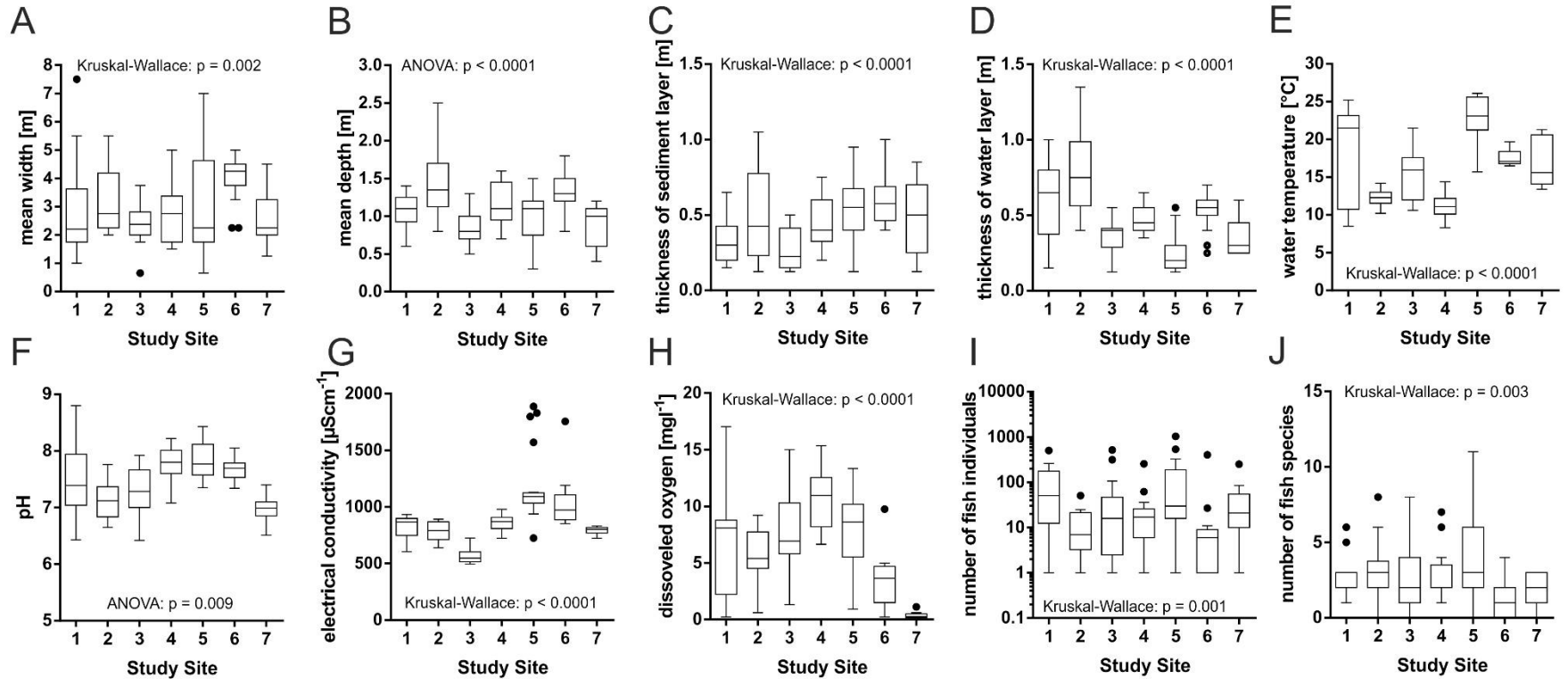
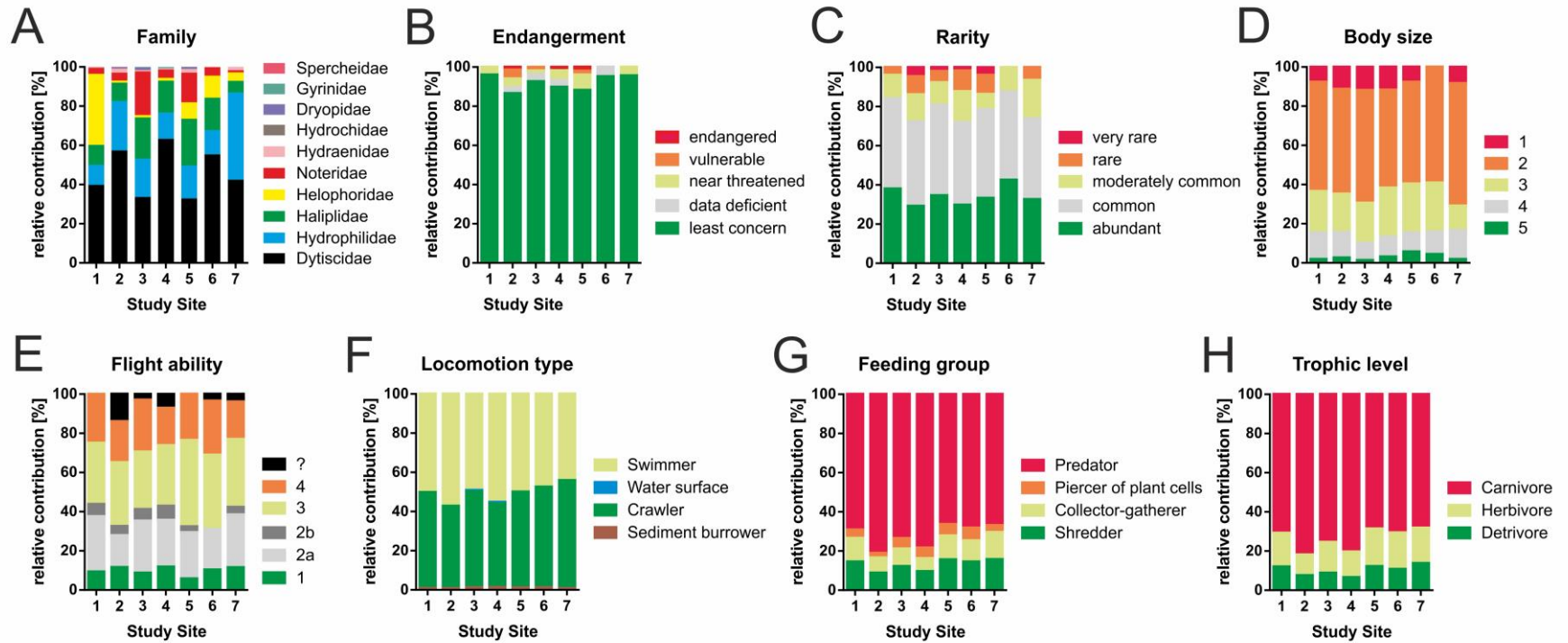


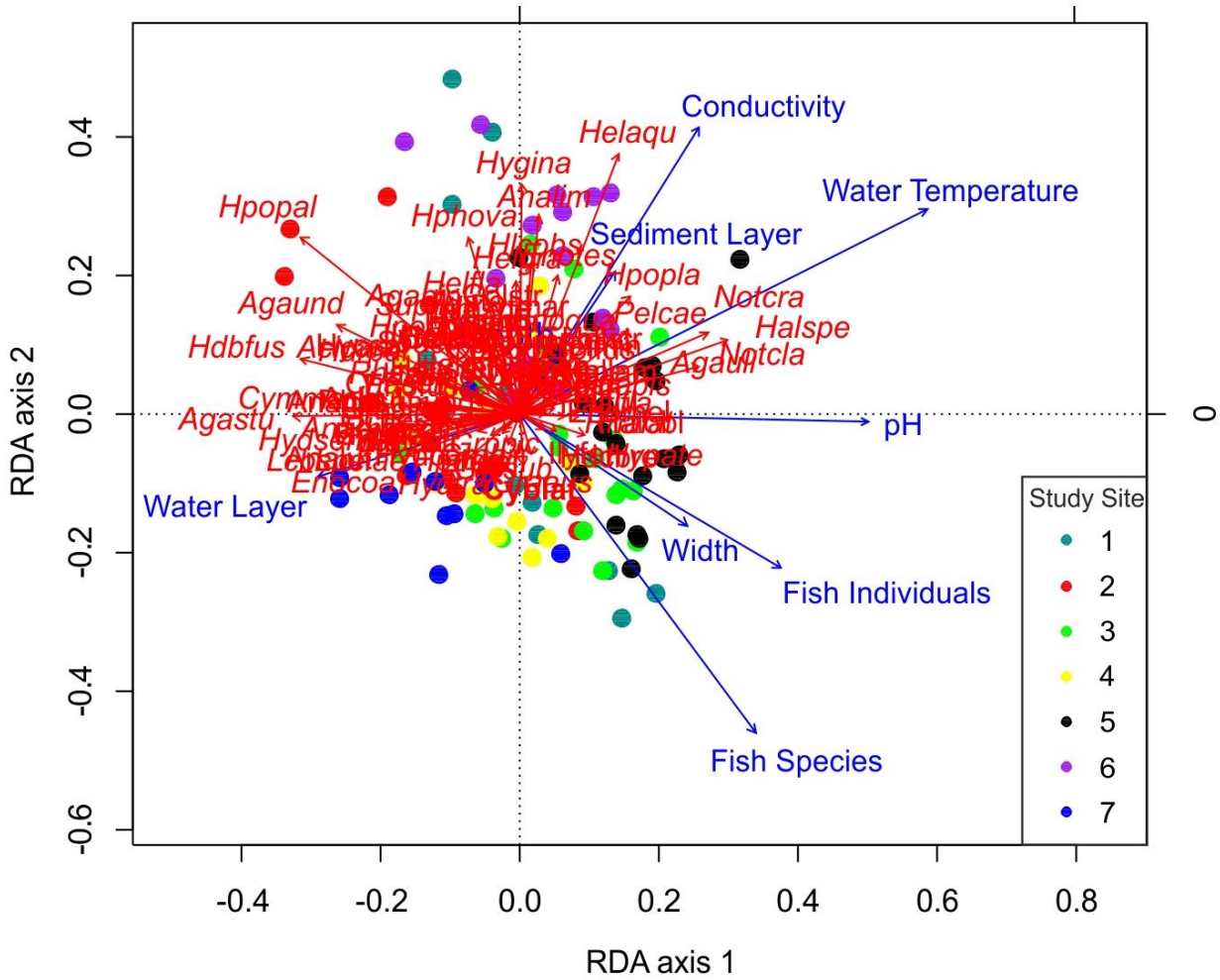
## Supplementary Material



**Fig. S1:** Environmental parameters at the study sites at the time of sampling. Mean width (A), mean depth (B), thickness of sediment layer (C), thickness of water layer (D), water temperature (E), pH (F), electrical conductivity (G) dissolved oxygen (H), number of fish individuals, please note the logarithmic scale of the y-axis (I), and number of fish species (J). Mean comparison was performed using Kruskal-Wallis test and one-way ANOVA, results are displayed within the graphs. Outliers are indicated by dots.



**Fig. S2:** Relative proportion of beetle families (A), endangered taxa (B), rare taxa (C), body size classes (D), flight ability classes (E), locomotion types (F), feeding groups (G), and trophic levels (H) on the community of aquatic Coleoptera for each study site. See ‘Material and Methods’ for explanation of body size and flight ability categorization.



**Fig. S3:** Ordination plot of partial redundancy analysis (RDA) considering ‘time’ as covariate. Analyzed data included taxa abundance per sampling location and environmental parameters. Axis 1: eigenvalue 0.152, Axis 2: eigenvalue 0.092. Variance (‘inertia’): total 2.893, constrained 0.442, conditional (covariate ‘time’) 0.099. See Tab. S4 for taxa abbreviations and Tab. S6 for RDA scores.

**Tab. S1:** Indices used to describe  $\alpha$ -,  $\beta$ - and  $\gamma$ -diversity

Scale	Index	Formula	Explanation
$\alpha$ - and $\gamma$ -diversity	Simpson index	$1 - D = \sum_{i=1}^n p_i^2$	$p_i$ is the relative abundance of the $i$ th taxon ( $p_i = n_i/n_{total}$ )
	Shannon index	$H' = - \sum_{i=1}^n p_i \ln p_i$	
	Evenness	$E = e^{H'/S}$	$S$ is the number of taxa;
$\beta$ -diversity	Jaccard index	$JA = S_{(A+B)} / (S_A + S_B - S_{(A+B)})$	site $A$ and $B$ ;
	Sørensen index	$S\emptyset = 200 \times S_{(A+B)} / (S_A + S_B)$	$\min(p_i \times 100)_{A,B}$ is the lower relative abundance of the $i$ th taxon compared between two sites
	Renkonen index	$RE = \sum_{i=1}^{S_{(A+B)}} \min(p_i \times 100)_{A,B}$	
	Wainstein index	$WA = RE \times JA / 100$	

**Tab. S2:** Richness and abundance of aquatic Coleoptera taxa collected in agricultural drainage ditches at the seven study sites.

Taxon	Study Site							Total
	1	2	3	4	5	6	7	
<b>Dryopidae</b>		<b>6</b>	<b>10</b>	<b>2</b>	<b>9</b>			<b>27</b>
<i>Dryops</i> spec.		6	10	2	9			27
<b>Dytiscidae</b>	<b>284</b>	<b>583</b>	<b>267</b>	<b>455</b>	<b>260</b>	<b>612</b>	<b>235</b>	<b>2696</b>
<i>Acilius canaliculatus</i> (Nicolai, 1822)	2	22			1	2	1	28
<i>Acilius sulcatus</i> (Linnaeus, 1758)	1	7	1			1		10
<i>Agabus bipustulatus</i> (Linnaeus, 1767)	9	4	4	5	1			23
<i>Agabus sturmii</i> (Gyllenhal, 1808)	9	32	25	24		1	46	137
<i>Agabus uliginosus</i> (Linnaeus, 1761)	1		1		39	1		42
<i>Agabus undulatus</i> (Schrank, 1776)	17	22	4	22		15		80
<i>Agabus unguicularis</i> (Thomson, 1867)		1						1
<i>Bidessus unistriatus</i> (Goetze, 1777)		26	1	1				28
<i>Colymbetes fuscus</i> (Linnaeus, 1758)	3	1	2		5	1		12
<i>Colymbetes striatus</i> (Linnaeus, 1758)	1							1
<i>Cybister lateralmarginalis</i> (De Geer, 1774)	1	4		4	4			13
<i>Dytiscus dimidiatus</i> Bergsträsser, 1778		2	3			1		6
<i>Dytiscus marginalis</i> Linnaeus, 1758				1		2		3
<i>Graphoderus austriacus</i> (Sturm, 1834)							1	1
<i>Graphoderus cinereus</i> (Linnaeus, 1758)	2	21		8	5		1	37
<i>Graptodytes bilineatus</i> (Sturm, 1835)		1						1
<i>Graptodytes granularis</i> (Linnaeus, 1767)		7		2				9
<i>Graptodytes pictus</i> (Fabricius, 1787)	10	7	4	18	4		3	46
<i>Hydaticus continentalis</i> (J. Balfour-Browne, 1944)		1		1				2
<i>Hydaticus seminiger</i> (De Geer, 1774)		12	1	3		2	7	25
<i>Hydaticus transversalis</i> (Pontoppidan, 1763)		1		1			1	3
<i>Hydroglyphus geminus</i> (Fabricius, 1792)	58	14	2	32	8		8	122
<i>Hydroporus angustatus</i> Sturm, 1835	4	14	9	4	3	7	10	51
<i>Hydroporus erythrocephalus</i> (Linnaeus, 1758)		1						1
<i>Hydroporus figuratus</i> (Gyllenhal, 1826)		11	1	1		10		23
<i>Hydroporus memnonius</i> Nicolai, 1822			1					1
<i>Hydroporus palustris</i> (Linnaeus, 1761)	99	159	63	136	32	254	82	825
<i>Hydroporus planus</i> (Fabricius, 1781)	11	1	5		28	6	1	52
<i>Hydroporus scalesianus</i> Stephens, 1828				1				1

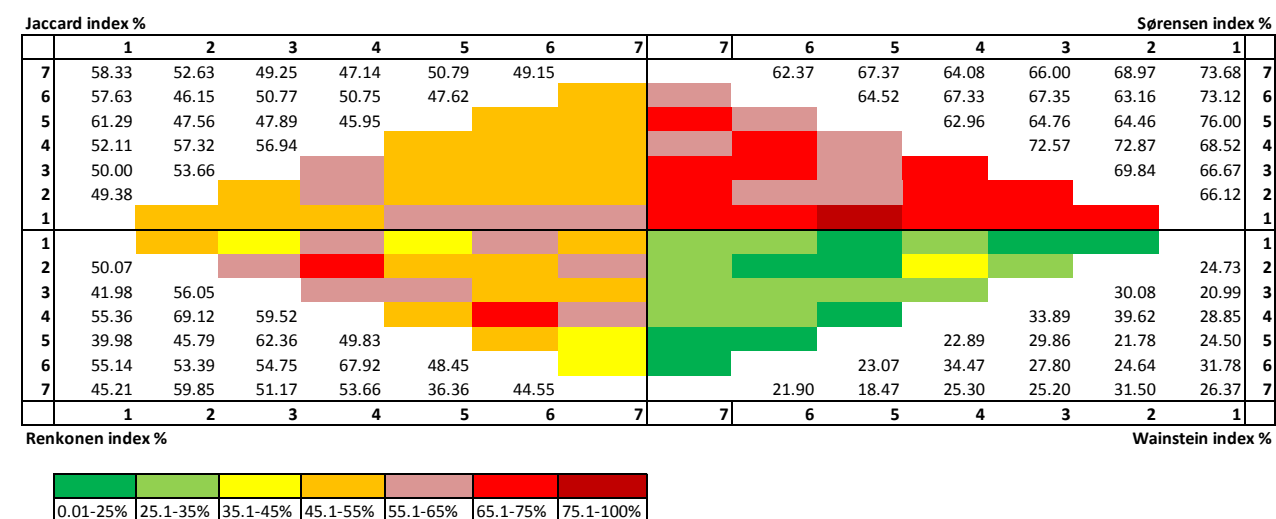
<i>Hydroporus striola</i> (Gyllenhal, 1826)			1					2
<i>Hydrovatus cuspidatus</i> (Kunze, 1818)			2					2
<i>Hygrotus decoratus</i> (Gyllenhal, 1810)	1	5		6				12
<i>Hygrotus impressopunctatus</i> (Schaller, 1783)	7	9	8	6	22	3	7	62
<i>Hygrotus inaequalis</i> (Fabricius, 1777)	28	86	56	63	79	95	19	426
<i>Hyphydrus ovatus</i> (Linnaeus, 1761)	9	29	43	70	9	199	29	388
<i>Ilybius ater</i> (De Geer, 1774)	4	1	4	1	1		2	13
<i>Ilybius fenestratus</i> (Fabricius, 1781)				1				1
<i>Ilybius quadriguttatus</i> (Lacodaire, 1835)		5		2	1			8
<i>Laccophilus hyalinus</i> (De Geer, 1774)	1		8	2			4	15
<i>Laccophilus minutus</i> (Linnaeus, 1758)	3	19	14	19	6	8	9	78
<i>Liopterus haemorrhoidalis</i> (Fabricius, 1787)		22		4		1		27
<i>Porhydrus lineatus</i> (Fabricius, 1775)		2			1		1	4
<i>Rhantus bistriatus</i> (Bergsträsser, 1778)		1	1		3			5
<i>Rhantus exoletus</i> (Forster, 1771)		8	4	1	1	1		15
<i>Rhantus frontalis</i> (Marsham, 1802)	1	8			1	1	2	13
<i>Rhantus grapii</i> (Gyllenhal, 1808)	1		1	1		1	1	5
<i>Rhantus latitans</i> Sharp, 1882			1	1	1			3
<i>Rhantus suturalis</i> (Macleay, 1825)	1	14		13	5			33
<b>Gyrinidae</b>			<b>3</b>	<b>5</b>				<b>8</b>
<i>Gyrinus substriatus</i> Stephens, 1829			3	5				8
<b>Haliplidae</b>	<b>73</b>	<b>95</b>	<b>167</b>	<b>117</b>	<b>189</b>	<b>182</b>	<b>33</b>	<b>856</b>
<i>Haliplus flavicollis</i> Sturm, 1834					1	2		3
<i>Haliplus fluviatilis</i> Aubé, 1836	4				1			5
<i>Haliplus fulvus</i> (Fabricius, 1801)					1			1
<i>Haliplus furcatus</i> Seidlitz, 1887		1			1			2
<i>Haliplus heydeni</i> Wehncke, 1875			9	6				15
<i>Haliplus immaculatus</i> Gerhardt, 1877	8		5	5	17	25	1	61
<i>Haliplus laminatus</i> (Schaller, 1783)			2	3				5
<i>Haliplus lineatocollis</i> (Marsham, 1802)	1	3		9	1	4	1	19
<i>Haliplus obliquus</i> (Fabricius, 1787)					1			1
<i>Haliplus ruficollis</i> (De Geer, 1774)	11	29	27	26	46	35	17	191
<i>Haliplus sibiricus</i> Motschulsky, 1860							1	1
<i>Haliplus</i> s. str. spec. <sup>1</sup>	47	57	102	38	91	89	8	432
<i>Pelodytes caesus</i> (Duftschmid, 1805)	2	5	22	30	29	27	5	120
<b>Helophoridae</b>	<b>259</b>	<b>11</b>	<b>10</b>	<b>10</b>	<b>67</b>	<b>125</b>	<b>24</b>	<b>506</b>
<i>Helophorus aquaticus</i> (Linnaeus, 1758) / <i>aequalis</i> Thomson, 1868 <sup>2</sup>	87		3	1	12	116		219
<i>Helophorus flavipes</i> Fabricius, 1792 / <i>obscurus</i> Mulsant, 1844 <sup>2</sup>	151	1				2	6	160
<i>Helophorus grandis</i> Illiger, 1798	2				1			3
<i>Helophorus granularis</i> (Linnaeus, 1761)	2	3			7		3	15
<i>Helophorus griseus</i> Herbst, 1793	1							1
<i>Helophorus minutus</i> Fabricius, 1775 / <i>paraminutus</i> Angus, 1986 <sup>2</sup>	15	7	5	9	25	7	15	83
<i>Helophorus nanus</i> Sturm, 1836			2		8			10
<i>Helophorus strigifrons</i> Thomson, 1868	1				14			15
<b>Hydraenidae</b>	<b>4</b>	<b>21</b>	<b>3</b>	<b>2</b>	<b>15</b>	<b>3</b>	<b>10</b>	<b>58</b>
<i>Hydraena palustris</i> Erichson, 1837		3						3
<i>Limnebius papposus</i> Mulsant, 1844	1	3		1	4		1	10
<i>Limnebius</i> spec.	2	2	2		7	3	3	19
<i>Limnebius</i> cf. <i>parvulus</i> (Herbst, 1797)				1				1
<i>Ochthebius minimus</i> (Fabricius, 1792)	1				2		4	7
<i>Ochthebius</i> spec.		13	1		2		2	18
<b>Hydrochidae</b>		<b>2</b>	<b>1</b>					<b>3</b>
<i>Hydrochus brevis</i> (Herbst, 1793)			1					1
<i>Hydrochus crenatus</i> (Fabricius, 1792)		2						2
<b>Hydrophilidae</b>	<b>73</b>	<b>256</b>	<b>156</b>	<b>97</b>	<b>134</b>	<b>137</b>	<b>247</b>	<b>1100</b>
<i>Anacaena bipustulata</i> (Marsham, 1802)		20	2				3	25
<i>Anacaena globulus</i> (Paykull, 1798)	9	1		1	1	14	47	73
<i>Anacaena limbata</i> (Fabricius, 1792)	19	50	36	24	65	36	22	252
<i>Anacaena lutescens</i> (Stephens, 1829)	1	10	5				25	41
<i>Cercyon convexiusculus</i> Stephens, 1829		1						1

<i>Cercyon marinus</i> Thomson, 1853								1
<i>Cercyon ustulatus</i> (Preysslner, 1790)								1
<i>Chaetharthria seminulum</i> (Herbst, 1797)			1					2
<i>Coelostoma orbiculare</i> (Fabricius, 1775)			1	4				5
<i>Cymbiodyta marginella</i> (Fabricius, 1792)		28	2	4			7	41
<i>Enochrus affinis</i> (Thunberg, 1794)							1	1
<i>Enochrus bicolor</i> (Fabricius, 1792)							3	3
<i>Enochrus coarctatus</i> (Gredler, 1863)		3	1	1			12	17
<i>Enochrus fuscipennis</i> (Thomson, 1884)		6	2	4		2		14
<i>Enochrus melanocephalus</i> (Olivier, 1792)	1			1		1		3
<i>Enochrus ochropterus</i> (Marsham, 1802)	4	1	3	1		1	2	12
<i>Enochrus quadripunctatus</i> (Herbst, 1797)	2	5	3	1	7	3	3	24
<i>Enochrus testaceus</i> (Fabricius, 1801)	2	4	10	5	8	22	4	55
<i>Helochares obscurus</i> (O.F. Müller, 1776)	11	18	22	21	31	37	36	176
<i>Hydrobius fuscipes</i> complex <sup>2</sup>	21	54	14	20	10	8	45	172
<i>Hydrochara caraboides</i> (Linnaeus, 1758)	2	26	3	9	6	4	3	53
<i>Hydrophilus aterrimus</i> Eschscholtz, 1822					2			2
<i>Hydrophilus piceus</i> (Linnaeus, 1758)					1		1	2
<i>Laccobius bipunctatus</i> (Fabricius, 1775)	1	6	13	1			13	34
<i>Laccobius minutus</i> (Linnaeus, 1758)		1	4			2	1	8
<i>Laccobius</i> spec. <sup>1</sup>		15	29	3	2	1	18	68
<i>Limnoxenus niger</i> (Zschach, 1788)		3	2	1	1	3	4	14
<b>Noteridae</b>	<b>22</b>	<b>41</b>	<b>179</b>	<b>31</b>	<b>120</b>	<b>47</b>	<b>6</b>	<b>446</b>
<i>Noterus clavicornis</i> (De Geer, 1774)	2		14	10	43	9		78
<i>Noterus crassicornis</i> (O.F. Müller, 1776)	20	41	165	21	77	38	6	368
<b>Spercheidae</b>	<b>2</b>	<b>2</b>	<b>1</b>					<b>3</b>
<i>Spercheus emarginatus</i> (Schaller, 1983)		2	1					3
<b>Total individuals per study site</b>	<b>715</b>	<b>1017</b>	<b>796</b>	<b>720</b>	<b>794</b>	<b>1106</b>	<b>555</b>	<b>5703</b>
<b>Total taxa per study site</b>	<b>54</b>	<b>76</b>	<b>60</b>	<b>63</b>	<b>57</b>	<b>47</b>	<b>52</b>	<b>108</b>

<sup>1</sup>Females of the subgenus *Halipilus* sensu stricto were not further determined, whereas all males were identified to species level.

<sup>2</sup>Species pairs and complexes that were not further separated.

**Tab. S3:** Comparison of taxa identities (Jaccard and Sørensen indices) and dominance identities (Renkonen and Wainstein indices) between the study sites.



**Tab. S4:** Scores of partial RDA on habitat and abundance data with ‘time’ as covariate.

Taxon	Abbreviation	Partial RDA Axis					
		1	2	3	4	5	6
<i>Acilius canaliculatus</i>	Acican	-0.0744	0.0639	-0.0443	9.7570	0.0533	-0.0575
<i>Acilius sulcatus</i>	Acisul	-0.0256	0.0219	-0.0288	-0.5981	0.0317	0.0110
<i>Agabus bipustulatus</i>	Agabip	-0.0366	0.0353	0.0315	70.2700	-0.0149	0.0134
<i>Agabus sturmii</i>	Agastu	-0.2694	-0.0746	-0.0012	135.4000	0.0022	0.0246
<i>Agabus uliginosus</i>	Agauli	0.1869	0.0933	0.0986	-78.5500	-0.0346	-0.0704
<i>Agabus undulatus</i>	Agaund	-0.1089	-0.0052	0.0428	-7.9910	0.0187	0.0530
<i>Agabus unguicularis</i>	Agaung	-0.0049	0.0015	0.0061	-3.6400	0.0138	0.0035
<i>Anacaena bipustulata</i>	Anabip	-0.0747	0.0022	0.0147	50.2000	0.0230	0.0108
<i>Anacaena globulus</i>	Anaglo	-0.1873	-0.0426	0.0588	10.4000	-0.0594	0.0125
<i>Anacaena limbata</i>	Analim	0.0328	0.3078	0.1330	86.3600	-0.1442	0.0366
<i>Anacaena lutescens</i>	Analut	-0.0987	0.0248	0.0196	87.1300	0.0572	-0.0869
<i>Bidessus unistriatus</i>	Biduni	-0.0768	0.0400	0.0601	-7.2210	0.1785	0.0110
<i>Cercyon convexiusculus</i>	Cercon	-0.0047	0.0026	0.0010	4.1630	-0.0028	-0.0042
<i>Cercyon marinus</i>	Cermar	-0.0064	0.0104	-0.0060	-3.0730	0.0228	-0.0049
<i>Cercyon ustulatus</i>	Cerust	-0.0047	0.0026	0.0010	4.1630	-0.0028	-0.0042
<i>Chaetharthria seminulum</i>	Chasem	-0.0076	-0.0011	0.0019	13.2600	-0.0036	-0.0101
<i>Coelostoma orbiculare</i>	Coeorb	-0.0046	0.0045	-0.0024	48.1700	-0.0052	0.0201
<i>Colymbetes fuscus</i>	Colfus	0.0420	0.0005	0.0319	19.2700	0.0335	0.0057
<i>Colymbetes striatus</i>	Colstr	-0.0040	0.0041	0.0089	2.7900	0.0036	-0.0024
<i>Cybister lateralimarginalis</i>	Cyblat	-0.0008	-0.0267	0.0340	-28.6800	0.0149	-0.0149
<i>Cymbiodyta marginella</i>	Cymmar	-0.1374	-0.0251	0.0408	-11.7300	0.0721	-0.0050
<i>Dryops spec.</i>	Dryspe	0.0030	0.0878	0.0777	38.9500	-0.0282	0.0419
<i>Dytiscus dimidiatus</i>	Dytdim	0.0010	0.0057	0.0019	33.5000	-0.0042	0.0248
<i>Dytiscus marginalis</i>	Dytmar	0.0007	0.0045	-0.0153	-4.5380	-0.0060	-0.0049
<i>Enochrus affinis</i>	Enoaff	-0.0053	-0.0074	-0.0038	-0.1733	-0.0030	-0.0075
<i>Enochrus bicolor</i>	Enobic	0.0022	0.0253	-0.0217	-17.7300	-0.0040	0.0185
<i>Enochrus coarctatus</i>	Enocoa	-0.0893	-0.0601	0.0293	-6.1800	-0.0007	-0.0155
<i>Enochrus fuscipennis</i>	Enofus	-0.0173	-0.0080	-0.0214	-11.2300	0.0341	-0.0100
<i>Enochrus melanocephalus</i>	Enomel	0.0100	-0.0049	-0.0109	-18.8100	0.0029	0.0174
<i>Enochrus ochropterus</i>	Enooch	0.0054	0.0237	0.0037	30.9700	0.0491	0.0207
<i>Enochrus quadripunctatus</i>	Enoqua	-0.0029	0.0347	0.0270	21.6700	-0.0019	-0.0592
<i>Enochrus testaceus</i>	Enotes	0.0443	0.0608	-0.0595	19.7800	0.0140	0.0357
<i>Graphoderus austriacus</i>	Graaus	-0.0057	-0.0061	-0.0084	0.7637	-0.0039	-0.0056
<i>Graphoderus cinereus</i>	Gracin	-0.0210	-0.0078	-0.0337	-42.1600	0.1072	-0.0147
<i>Graptodytes bilineatus</i>	Grpbil	-0.0060	0.0005	0.0087	1.5820	0.0061	-0.0008
<i>Graptodytes granularis</i>	Grpgra	-0.0387	0.0077	0.0164	-28.2400	0.0406	0.0143
<i>Graptodytes pictus</i>	Grppic	-0.0454	-0.0403	0.0601	-35.0200	0.0216	-0.0462
<i>Gyrinus substriatus</i>	Gyrsub	-0.0082	-0.0217	-0.0036	2.1630	-0.0280	0.0101
<i>Haliplus flavicollis</i>	Halfla	0.0137	0.0007	-0.0090	-21.8800	0.0197	0.0047
<i>Haliplus laminatus</i>	Hallam	0.0034	0.0194	0.0197	-9.2080	-0.0089	0.0011
<i>Haliplus lineatocollis</i>	Halline	0.0030	0.0079	-0.0301	13.6200	-0.0047	-0.0056
<i>Haliplus obliquus</i>	Halobl	-0.0072	-0.0031	-0.0414	-3.7720	-0.0449	0.0558
<i>Haliplus s.str. spec.</i>	Halspe	0.0139	-0.0058	0.0010	-2.3260	-0.0014	-0.0010
<i>Helochares obscurus</i>	Hlcobs	0.3575	-0.0045	-0.0889	21.6300	0.1228	0.1840
<i>Helophorus aquaticus/aequalis</i>	Helaqu	-0.0260	0.0937	-0.0508	12.3000	0.0480	-0.0101
<i>Helophorus flavipes/obscurus</i>	Helfla	0.1359	0.3623	-0.0114	-116.4000	0.0831	0.0260
<i>Helophorus grandis</i>	Helgra	-0.0391	0.1050	0.1352	112.5000	0.1400	-0.0361
<i>Helophorus granularis</i>	Helgrn	-0.0014	0.0314	0.0319	2.8930	-0.0048	0.0008
<i>Helophorus griseus</i>	Helgri	-0.0348	0.0424	0.0849	-14.5900	-0.0214	0.0184
<i>Helophorus</i>	Helmin	0.0013	0.0066	0.0032	8.0760	-0.0014	-0.0025

<i>Helophorus nanus</i>	Helnan	0.0796	0.0323	0.1252	-15.3700	0.0789	-0.0537
<i>Helophorus strigifrons</i>	Helstr	0.0025	0.0565	0.0761	-35.9000	-0.0524	0.0266
<i>Hydaticus continentalis</i>	Hydcon	0.0292	0.0890	0.1117	-61.9800	-0.0455	0.0183
<i>Hydaticus seminiger</i>	Hydsem	-0.0099	-0.0021	0.0085	-0.4451	-0.0015	-0.0012
<i>Hydaticus transversalis</i>	Hydtra	-0.1056	-0.0105	0.0024	-12.0000	0.0347	0.0028
<i>Hydraena palustris</i>	Hdrpal	-0.0137	-0.0126	-0.0079	-14.6900	-0.0123	-0.0016
<i>Hydrobius fuscipes</i> complex	Hdbfus	-0.0158	0.0027	0.0131	-0.0997	0.0064	0.0060
<i>Hydrochara caraboides</i>	Hycar	-0.3469	0.0617	0.1664	25.6900	0.0841	-0.0003
<i>Hydrochus brevis</i>	Hdcbre	-0.0946	0.0878	0.0698	-42.6900	-0.0038	0.0327
<i>Hydrochus crenatus</i>	Hdcre	-0.0026	-0.0058	-0.0002	6.8910	-0.0022	-0.0055
<i>Hydroglyphus geminus</i>	Hglgem	-0.0084	0.0047	-0.0004	-1.1200	0.0169	-0.0097
<i>Hydrophilus aterrimus</i>	Hypate	-0.1098	0.0434	0.0074	-15.3000	0.0408	-0.0554
<i>Hydrophilus piceus</i>	Hyppic	0.0294	-0.0072	0.0088	1.9310	-0.0011	-0.0130
<i>Hydroporus angustatus</i>	Hpoang	0.0018	-0.0089	0.0104	-0.9066	-0.0006	-0.0127
<i>Hydroporus erythrocephalus</i>	Hpoery	-0.1178	0.0028	0.0362	54.6600	0.0062	-0.0118
<i>Hydroporus figuratus</i>	Hpofig	-0.0035	-0.0049	0.0085	-1.6290	0.0034	0.0034
<i>Hydroporus memnonius</i>	Hpomem	-0.0421	0.0455	-0.0453	8.3700	0.0293	-0.0222
<i>Hydroporus palustris</i>	Hpopal	-0.0010	0.0042	-0.0016	12.5400	0.0023	0.0105
<i>Hydroporus planus</i>	Hpopla	-0.3883	0.2618	-0.2431	70.4900	-0.0777	0.0324
<i>Hydroporus scalesianus</i>	Hposca	0.1307	0.1625	0.1500	-14.6100	-0.0418	-0.0128
<i>Hydroporus striola</i>	Hpostr	-0.0003	0.0017	-0.0093	-2.8830	-0.0007	-0.0006
<i>Hydrovatus cuspidatus</i>	Hovcus	-0.0090	-0.0026	0.0047	-10.0500	0.0077	0.0011
<i>Hygrotus decoratus</i>	Hygdec	-0.0075	0.0042	0.0016	6.6610	-0.0045	-0.0067
<i>Hygrotus impressopunctatus</i>	Hygimp	-0.0411	-0.0057	0.0172	-24.0100	0.0167	-0.0120
<i>Hygrotus inaequalis</i>	Hygina	-0.0096	0.1412	0.2072	6.6270	-0.0570	0.0292
<i>Hyphydrus ovatus</i>	Hphova	0.0225	0.2809	-0.1204	-30.0800	0.0068	-0.0726
<i>Ilybius ater</i>	Ilyate	-0.1555	0.2027	-0.2944	-42.1700	0.0417	-0.0057
<i>Ilybius fenestratus</i>	Ilyfen	-0.0085	0.0066	0.0235	66.1800	-0.0152	0.0053
<i>Ilybius quadriguttatus</i>	Ilyqua	-0.0034	-0.0014	-0.0058	-6.0040	-0.0010	-0.0024
<i>Laccobius</i> spec.	Lcbspe	-0.0106	0.0369	0.0157	2.2350	0.0145	-0.0018
<i>Laccophilus hyalinus</i>	Lachya	-0.1905	-0.1102	0.0549	192.2000	-0.0344	0.0413
<i>Laccophilus minutus</i>	Lacmin	-0.0089	-0.0405	0.0057	20.0900	0.0105	-0.0147
<i>Limnebius</i> spec.	Limspe	-0.0418	-0.0175	-0.0626	48.0000	-0.0103	-0.0129
<i>Limnoxenus niger</i>	Lixnig	-0.0173	0.0934	0.1294	-26.4300	-0.0239	0.0151
<i>Liopterus haemorrhoidalis</i>	Liohae	-0.0090	-0.0056	-0.0398	0.5285	0.0001	-0.0095
<i>Noterus clavicornis</i>	Notcla	-0.0688	0.0237	0.0085	-2.4630	0.0483	0.0314
<i>Noterus crassicornis</i>	Notcra	0.2839	-0.0351	-0.0766	-10.8100	0.0018	-0.0726
<i>Ochthebius</i> spec.	Ochesp	0.3337	0.1017	-0.0298	412.6000	0.0569	-0.0261
<i>Peltodytes caesus</i>	Pelcae	-0.0494	0.0130	0.0765	-15.5100	0.0746	-0.0063
<i>Porhydrus lineatus</i>	Porlin	0.0971	-0.0127	-0.0504	77.4700	-0.1303	-0.0787
<i>Rhantus bistratus</i>	Rhabis	-0.0232	0.0151	0.0379	-8.9830	0.0010	0.0054
<i>Rhantus exsoletus</i>	Rhaexo	0.0061	0.0499	0.0565	-9.3200	-0.0210	0.0094
<i>Rhantus frontalis</i>	Rhafro	-0.0359	0.0201	0.0041	35.3300	0.0126	0.0061
<i>Rhantus grapii</i>	Rhagra	-0.0288	0.0009	0.0256	-17.8200	0.0374	0.0106
<i>Rhantus latitans</i>	Rhalat	-0.0091	0.0128	0.0049	13.5700	-0.0034	-0.0030
<i>Rhantus suturalis</i>	Rhasut	0.0066	0.0148	0.0271	0.5417	-0.0123	-0.0082
<i>Spercheus emarginatus</i>	Speema	-0.0235	-0.0062	-0.0698	-18.8400	-0.0731	-0.0044
Parameter (Constraining variables)		Partial RDA Axis					
		1	2	3	4	5	6
Water Temperature		0.73517	0.37003	0.27175	0.06647	0.10438	-0.03271
pH		0.62873	-0.01429	-0.12169	-0.37969	-0.31554	0.27244
Electrical conductivity		0.32314	0.5194	0.25427	-0.63724	-0.26102	-0.12795
Width		0.30214	-0.20225	-0.50451	-0.34432	0.25686	0.24358
Depth		-0.01453	0.09499	-0.52244	-0.37647	0.52145	-0.30585



Thickness of water layer	-0.36676	-0.11509	-0.04903	-0.35735	0.69483	0.1398
Thickness of sediment layer	0.17121	0.25642	-0.62711	-0.26804	0.09766	-0.63989
Number of fish species	0.42448	-0.57671	0.24394	-0.11469	0.23686	-0.36163
Number of fish individuals	0.47082	-0.27825	0.10968	-0.12493	0.3245	-0.07786

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