

Supplementary Materials: Effects of Land Use Types on Community Structure Patterns of Benthic Macroinvertebrates in Streams of Urban Areas in the South of the Korea Peninsula

Dong-Hwan Kim, Tae-Soo Chon, Gyu-Suk Kwak, Sang-Bin Lee and Young-Seuk Park

Table S1. A list of taxa identified in the study sites.

Phylum	Class	Order	Family	Species Name	Reference*			
Platyhelminthes	Turbellaria	Tricladida	Planariidae	<i>Dugesia</i> sp.	[1]			
Mollusca	Gastropoda	Mesogastropoda	Bithyniidae	<i>Parafossarulus manchouricus</i>	[1]			
				Stenothyridae	<i>Stenothyra glabra</i>	[1]		
				<i>Semisulcospira gottschei</i>	[1]			
			<i>Semisulcospira libertina</i>	[1]				
			<i>Semisulcospira</i> sp.	[1]				
			Basommatophora	Physidae	<i>Physa acuta</i>	[1]		
		Bivalvia	Mytiloidea	Mytilidae	Planorbidae sp.	[1]		
					<i>Gyraulus convexiusculus</i>	[1]		
					<i>Limmoperna forunei</i>	[1]		
			Veneroidea	Corbiculidae	<i>Corbicula japonica</i>	[1]		
					<i>Corbicula fluminea</i>	[1]		
					<i>Corbicula leana</i>	[1]		
Annelida	Oligocheata	Archioligocheata	Tubificidae	<i>Branchiura sowerbyi</i>	[1]			
			Oligocheata spp.	[2]				
	Hirudinia	Rhynchobdellida	Glossiponidae	Glossiphoniidae sp.	[1]			
				Hirudinidae sp.	[1]			
				<i>Whitmania edentula</i>	[1]			
			Erpobdellidae	<i>Hirudo nipponia</i>	[1]			
				<i>Erpobdella lineata</i>	[1]			
				<i>Erpobdella</i> sp.	[1]			
Arthropoda	Crustacea	Isopoda	Sphaeromatidae	<i>Gnorimosphaeroma naktongense</i>	[1]			
			Asellidae	<i>Asellus</i> sp.	[1]			
			Amphipoda	Gammaridae	<i>Gammarus</i> sp.	[1]		
		<i>Gammarus galgosensis</i>		[1]				
		Decapoda	Atyidae	<i>Cardinia</i> sp.	[1]			
				Entognatha	Collembola	Collembola sp.	[4]	
				Insecta	Ephemeroptera	Ameletidae	<i>Ameletus costalis</i>	[3]
						Baetidae	<i>Acentrella gnom</i>	[3]
							<i>Acentrella sibirica</i>	[3]
		<i>Alanites muticus</i>	[3]					
<i>Baetiella tuberculata</i>	[3]							
<i>Baetis fuscatus</i>	[3]							

			<i>Baetis pseudothermicus</i>	[3]
			<i>Baetis silvaticus</i>	[3]
			<i>Baetis ursinus</i>	[3]
			<i>Cloeon dipterum</i>	[3]
			<i>Labiobaetis atrebatinus</i>	[3]
			<i>Nigrobaetis bacillus</i>	[3]
			<i>Procloeon pennulatum</i>	[3]
		Heptageniidae	<i>Cinygmula grandifolia</i>	[3]
			<i>Ecdyonurus bajkovae</i>	[3]
			<i>Ecdyonurus dracon</i>	[3]
			<i>Ecdyonurus joernensis</i>	[3]
			<i>Ecdyonurus kibunensis</i>	[3]
			<i>Ecdyonurus levis</i>	[3]
			<i>Epeorus curvatulus</i>	[3]
			<i>Epeorus pellucidus</i>	[3]
		Leptophlebiidae	<i>Choroterpes altioculus</i>	[3]
			<i>Paraleptophlebia chocolata</i>	[3]
		Ephemeridae	<i>Ephemera orientalis</i>	[3]
			<i>Ephemera strigata</i>	[3]
		Ephemerellidae	<i>Cincticostella levanidovae</i>	[3]
			<i>Ephemerella dentata</i>	[3]
			<i>Ephemerella kozhovi</i>	[3]
			<i>Serratella setigera</i>	[3]
			<i>Serratella sp.</i>	[3,4]
			<i>Uracanthella rufa</i>	[3]
		Caenidae	<i>Caenis nishinoae</i>	[3]
	Odonata	Coenagrionidae	<i>Cercion calamorum</i>	[3]
			<i>Enallagma cyathigerum</i>	[3]
			<i>Ischnura asiatica</i>	[3]
			Coenagrionidae sp.	[3,4]
		Platycnemididae	<i>Platycnemis phillopoda</i>	[3]
		Calopterygidae	<i>Calopteryx japonica</i>	[3]
		Gomphidae	<i>Davidius lunatus</i>	[3]
			<i>Gomphidia confluens</i>	[3]
			<i>Sieboldius albardae</i>	[3]
			<i>Trigomphus melampus</i>	[3]
		Cordulegastridae	<i>Anotogaster sieboldii</i>	[3]
		Libellulidae	<i>Crocothemis servilia</i>	[3]
			<i>Lyriothemis pachygastra</i>	[3]
			<i>Libellula quadrimaculata</i>	[3]
	Plecoptera	Nemouridae	<i>Amphinemura coreana</i>	[3]
			<i>Amphinemura KUa</i>	[3,5]

			<i>Nemoura</i> KUa	[3,5]
			<i>Nemoura</i> KUb	[3,5]
		Capniidae	<i>Capnia</i> KUa	[3,5]
		Pteronarcidae	<i>Pteronarcys macra</i>	[3]
		Perlodidae	<i>Megarcys ochracea</i>	[3]
		Perlidae	<i>Kamimuria coreana</i>	[3]
			<i>Neoperla quadrata</i>	[3]
			<i>Oyamia coreana</i>	[3]
		Chloroperlidae	<i>Sweltsa</i> KUa	[3,5]
			<i>Sweltsa nikkoensis</i>	[3]
	Hemiptera	Belostomatidae	<i>Muljarus japonicus</i>	[3]
		Mebridae	<i>Hebrus nipponicus</i>	[3]
	Megaloptera	Corydalidae	<i>Parachauliodes continentalis</i>	[3]
			<i>Protohermes grandis</i>	[3]
	Coleoptera	Dytiscidae	<i>Rhantus pulverosus</i>	[3]
		Haliplidae	<i>Peltodytes</i> sp.	[3,4]
		Hydrophilidae	Hydrophilidae sp.	[3,4]
		Helodidae	Helodidae sp. (larva)	[3,4]
		Elmidae	Elmidae sp. (larva)	[3,4]
		Psephenidae	<i>Eubrianax</i> KUa	[3,5]
			<i>Mataeoapsephus</i> KUa	[3,5]
	Diptera	Tipulidae	Tipulidae sp.	[3]
			<i>Antocha</i> KUa	[3,5]
			<i>Dicranota</i> KUa	[3,5]
			<i>Hexatoma</i> KUa	[3,5]
			<i>Tipula</i> KUa	[3,5]
			<i>Tipula</i> KUb	[3,5]
		Psychodidae	<i>Psychoda</i> KUa	[3,5]
			<i>Psychoda</i> sp.	[3,4]
		Dixidae	Dixidae sp.	[3]
		Culicidae	Culicidae sp.	[3]
		Simuliidae	<i>Simulium</i> sp.	[3,4]
		Ceratopogonidae	Ceratopogonidae sp.1	[3,4]
			Ceratopogonidae sp.2	[3,4]
		Chironomidae	Chironomidae spp.	[3]
		Athericidae	<i>Suragina</i> KUa	[3,5]
	Trichoptera	Rhyacophilidae	<i>Rhyacophila articulata</i>	[3]
			<i>Rhyacophila</i> KUb	[3,5]
			<i>Rhyacophila nigrocephala</i>	[3]
		Hydroptilidae	<i>Hydroptila</i> KUa	[3,5]
		Glossosomatidae	<i>Glossosoma</i> KUa	[3,5]
		Philopotamidae	<i>Wormaldia</i> KUa	[3,5]
		Hydropsychidae	<i>Aethaloptera</i> KUa	[3,5]

		<i>Cheumatopsyche</i> KUa	[3,5]
		<i>Cheumatopsyche</i> KUb	[3,5]
		<i>Diplectrona</i> KUa	[3,5]
		<i>Hydropsyche kozhantschikovi</i>	[3]
		<i>Hydropsyche orientalis</i>	[3]
		<i>Hydropsyche valvata</i>	[3]
		<i>Hydropsyche</i> sp.	[3,4]
	Polycentropodidae	Polycentropodidae sp.	[3,4]
	Brachycentridae	<i>Micrasema</i> KUa	[3,5]
	Limnephilidae	<i>Hydatophylax nigrovittatus</i>	[3]
		<i>Nemotaulius</i> sp.	[3,4]
	Goeridae	<i>Goera japonica</i>	[3]
	Apataniidae	<i>Apatania</i> KUa	[3,5]
		<i>Apatania</i> sp.	[3,4]
	Lepidostomatidae	<i>Lepidostoma albardanum</i>	[3]
		<i>Lepidostoma</i> KUa	[3,5]
	Odontoceridae	<i>Psilotreta kisoensis</i>	[3]
	Leptoceridae	<i>Mystacides</i> KUa	[3,5]

Reference

1. Han, M.; Na, Y.; Bang, H.; Kim, M.; Kang, K.; Hong, H.; Lee, J.; Ko, B. *Aquatic Invertebrate in Paddy Ecosystem of Korea*; Kwang Monn Dang Press: Suwon, Korea, 2010.
2. Brigham, A.R.; Brigham, W.U.; Gnilka, A. *Aquatic Insects and Oligochaetes of North and South Carolina*; Midwest Aquatic Enterprises: Midwest Aquatic Enterprises, IL, USA, 1982.
3. Won, D.; Kwon, S.; Jun, Y. *Aquatic Insects of Korea*; Korea Ecosystem Service: Seoul, Korea, 2005.
4. Merritt, R.W.; Cummins, K.W. *An Introduction to the Aquatic Insects of North America*; Kendall Hunt: Dubuque, IA, USA, 1996.
5. Yoon, I. *Aquatic Insects of Korea*; Jeonghaengsa: Seoul, Korea, 1995.