

Supplementary data

Table S1 macroinvertebrates species identified in Baiyangdian Lake during survey in this study.

Time	2017.05	2017.06	2017.07	2017.08	2017.09	2017.10	2017.11	2018.04	2018.06	2018.08	2018.10
<i>Oligochaeta</i>											
<i>Limnodrilus hoffmeisteri</i>	++	++	-	++	++	++	++	++	-	-	++
<i>Branchiura sowerbyi</i>	++	+	++	++	++	++	++	+	++	++	+
<i>Limnodrilus clapedianus</i>	-	++	-	-	-	-	-	-	-	-	-
<i>Lumbriculus sp.</i>	-	+	-	-	-	-	-	-	-	-	-
<i>Hirudinea</i>											
<i>Erpobdella sp.</i>	-	-	-	-	-	+	-	+	-	-	-
<i>Gastropoda</i>											
<i>Cipangopaludina chinensis</i>	+	-	++	-	-	-	-	-	-	-	-
<i>Bithynia fuchsiana</i>	++	++	++	++	++	++	++	+++	++++	++++	++++
<i>Hippeutis cantori</i>	++	-	-	-	-	-	-	-	-	-	-
<i>Radix tagotis</i>	+	-	-	-	-	-	-	-	-	-	-
<i>Bellamyia purificata</i>	-	-	++	++	+	+	++	+	++++	-	+
<i>Alocinma longicornis</i>	-	-	-	++++	-	++	+	-	-	-	-
<i>Bellamyia aeruginosa</i>	-	-	-	+++	++	++	++	++	+++	++	+
<i>Galba perversa</i>	-	-	-	++	-	-	-	-	-	-	-
<i>Gyraulus convexiusculus</i>	-	-	-	-	+	-	-	-	-	-	-
<i>Bithynia misella</i>	-	-	-	-	-	-	++	++	++	++	++
<i>Radix plicatula</i>	-	-	-	-	-	-	+	-	-	-	-
<i>Isecta</i>											
<i>Cldopelma edwardsi</i>	++	-	-	-	-	-	+++	-	-	-	-
<i>Chironomus plumosus</i>	++++	-	-	++	+++	++	-	+++	++	-	++

<i>Prosilocerus kamusi</i>	+++	++++	++	+++	++	++++	++++	++++	++++	+++	++++
<i>Chironomus acerbiphilus</i>	-	++++	++++	-	-	-	-	-	-	-	-
<i>Tanypus punctipennis</i>	-	++	+++	-	-	-	-	-	-	-	-
<i>Tanypus villipennis</i>	-	-	-	+++	++++	++++	+++	+	-	-	++
<i>Procladius choreus</i>	-	++	-	-	-	-	-	-	-	-	-
<i>Krenosmittia camptopheps</i>	-	+	-	-	-	-	-	-	-	-	-
<i>Chaoborus sp.</i>	-	-	++	-	-	-	-	-	-	-	+
<i>Einfeldia sp.</i>	-	-	-	-	-	+	+	+	++	-	+++
<i>Microchironomus tener</i>	-	-	-	-	++	-	-	-	-	-	-
<i>Tanypus villipennis</i>	-	-	-	-	-	-	+	-	-	-	-
<i>Polypedilum sp.</i>	-	-	-	-	-	-	-	-	-	-	+
Crustacea											
<i>Macrobrachium nipponense</i>	-	-	-	-	+	-	-	-	-	-	-
<i>Caridina sp.</i>	-	-	-	-	-	-	+	-	-	-	-
<i>Anisogammarus sp.</i>	-	-	-	-	-	-	+	-	-	-	-
Bivalvia											
<i>Anodonta angula</i>	-	-	-	++	-	-	-	-	-	-	-

Note: “+” represents the individual amounts less than 1% in the total quantity; “++” represents the individual amounts more than 1% and less than 10% in the total quantity; “+++” represents the individual amounts more than 10% and less than 20% in the total quantity; “++++” represents the individual amounts more than 20% in the total quantity; “-” represents no species under this sampling event. Species with a yellow background do not participate in the analysis of community dissimilarity.