

**Supplementary Table S1.** Results of one-way ANOSIM and SIMPER analysis on the zooplankton abundance between different stations.

ANOSIM					
Groups	R	p	Most discriminating species	SIMPER average dissimilarity	Contribution (%)
S <sub>1</sub> versus S <sub>2</sub>	1.00	0.096	<i>Cyclops nanus</i>	2.42	15.55
S <sub>1</sub> versus S <sub>3</sub>	0.926	0.099	<i>Brachionus</i> sp.	1.88	14.52
S <sub>1</sub> versus S <sub>4</sub>	1.00	0.103	<i>Keratella cochlearis</i>	3.03	12.3
S <sub>1</sub> versus S <sub>5</sub>	1.00	0.109	<i>Mesocyclops leuckarti</i>	2.83	15.22
S <sub>1</sub> versus S <sub>6</sub>	1.00	0.099	Nauplii	3.77	14.3
S <sub>1</sub> versus S <sub>7</sub>	1.00	0.099	<i>Brachionus calyciflorus</i>	3.79	19.1
S <sub>1</sub> versus S <sub>8</sub>	1.00	0.100	<i>Diaptomus gracilis</i>	1.97	10.11
S <sub>1</sub> versus S <sub>9</sub>	1.00	0.096	<i>Brachionus calyciflorus</i>	3.79	18.34
S <sub>1</sub> versus S <sub>10</sub>	1.00	0.095	<i>Cyclops nanus</i>	2.32	13.48
S <sub>2</sub> versus S <sub>3</sub>	0.741	0.099	Nauplii	1.66	13.14
S <sub>2</sub> versus S <sub>4</sub>	1.00	0.102	<i>Keratella cochlearis</i>	3.37	14.29
S <sub>2</sub> versus S <sub>5</sub>	1.00	0.102	<i>Diaphanosoma sarsi</i>	2.89	17.09
S <sub>2</sub> versus S <sub>6</sub>	1.00	0.103	Nauplii	4.75	19.57
S <sub>2</sub> versus S <sub>7</sub>	1.00	0.097	<i>Brachionus calyciflorus</i>	3.33	14.09
S <sub>2</sub> versus S <sub>8</sub>	0.482	0.100	<i>Diaptomus gracilis</i>	2.17	14.74
S <sub>2</sub> versus S <sub>9</sub>	1.00	0.100	<i>Brachionus calyciflorus</i>	3.33	18.12
S <sub>2</sub> versus S <sub>10</sub>	0.741	0.099	<i>Diaptomus gracilis</i>	2.53	21.49
S <sub>3</sub> versus S <sub>4</sub>	1.00	0.100	<i>Mesocyclops leuckarti</i>	3.30	14.09
S <sub>3</sub> versus S <sub>5</sub>	1.00	0.100	<i>Brachionus quadridentatus</i>	1.73	9.774
S <sub>3</sub> versus S <sub>6</sub>	1.00	0.103	<i>Brachionus rubens</i>	3.44	13.06
S <sub>3</sub> versus S <sub>7</sub>	1.00	0.098	<i>Brachionus calyciflorus</i>	2.89	13.68
S <sub>3</sub> versus S <sub>8</sub>	0.963	0.104	<i>Diaptomus gracilis</i>	2.01	11.16
S <sub>3</sub> versus S <sub>9</sub>	1.00	0.099	<i>Brachionus calyciflorus</i>	2.89	14.97
S <sub>3</sub> versus S <sub>10</sub>	1.00	0.099	<i>Diaptomus gracilis</i>	2.34	17.36
S <sub>4</sub> versus S <sub>5</sub>	1.00	0.104	<i>Mesocyclops leuckarti</i>	4.88	16.69
S <sub>4</sub> versus S <sub>6</sub>	1.00	0.102	<i>Brachionus rubens</i>	5.33	19.69
S <sub>4</sub> versus S <sub>7</sub>	1.00	0.097	<i>Brachionus rubens</i>	3.59	12.53
S <sub>4</sub> versus S <sub>8</sub>	1.00	0.100	<i>Brachionus rubens</i>	3.27	11.84
S <sub>4</sub> versus S <sub>9</sub>	1.00	0.096	<i>Brachionus rubens</i>	4.05	14.82
S <sub>4</sub> versus S <sub>10</sub>	1.00	0.098	<i>Brachionus rubens</i>	3.19	12.36
S <sub>5</sub> versus S <sub>6</sub>	1.00	0.102	<i>Keratella cochlearis</i>	2.89	13.08
S <sub>5</sub> versus S <sub>7</sub>	1.00	0.098	<i>Diaphanosoma sarsi</i>	3.49	15.54
S <sub>5</sub> versus S <sub>8</sub>	0.519	0.103	Nauplii	1.94	14.62
S <sub>5</sub> versus S <sub>9</sub>	1.00	0.097	<i>Brachionus calyciflorus</i>	3.10	16.9
S <sub>5</sub> versus S <sub>10</sub>	1.00	0.104	<i>Diaphanosoma sarsi</i>	2.55	17.69
S <sub>6</sub> versus S <sub>7</sub>	1.00	0.100	<i>Brachionus calyciflorus</i>	4.63	16.73
S <sub>6</sub> versus S <sub>8</sub>	1.00	0.097	Nauplii	4.79	20.51
S <sub>6</sub> versus S <sub>9</sub>	1.00	0.099	<i>Brachionus calyciflorus</i>	4.63	16.57
S <sub>6</sub> versus S <sub>10</sub>	1.00	0.098	Nauplii	3.73	15.49
S <sub>7</sub> versus S <sub>8</sub>	1.00	0.099	<i>Brachionus quadridentatus</i>	3.01	14.58
S <sub>7</sub> versus S <sub>9</sub>	1.00	0.099	<i>Mesocyclops leuckarti</i>	2.14	16.32
S <sub>7</sub> versus S <sub>10</sub>	1.00	0.095	<i>Brachionus calyciflorus</i>	2.97	17.85

S <sub>8</sub> versus S <sub>9</sub>	1.00	0.101	<i>Brachionus quadridentatus</i>	2.81	16.35
S <sub>8</sub> versus S <sub>10</sub>	0.296	0.198	<i>Brachionus quadridentatus</i>	2.24	17.53
S <sub>9</sub> versus S <sub>10</sub>	1.00	0.096	<i>Brachionus calyciflorus</i>	2.97	23.2

**Supplementary Table S2.** Average dissimilarity and discriminating species in each station and season using SIMPER analysis.

Average dissimilarity (%)							
S <sub>1</sub>		S <sub>2</sub>		S <sub>3</sub>		S <sub>4</sub>	
36.53		20.22		26.69		34.04	
Contributory species							
S <sub>1</sub>		S <sub>2</sub>		S <sub>3</sub>		S <sub>4</sub>	
Species	(%)	Species	(%)	Species	(%)	Species	(%)
<i>Brachionus calyciflorus</i>	20.20	<i>Diaptomus</i> sp.	17.70	<i>Cyclops nanus</i>	14.27	<i>Brachionus calyciflorus</i>	12.18
<i>Brachionus</i> sp.	10.12	<i>Brachionus calyciflorus</i>	13.21	<i>Brachionus quadridentatus</i>	12.88	<i>Cyclops nanus</i>	10.77
<i>Diaptomus</i> sp.	9.11	<i>Brachionus quadridentatus</i>	11.02	<i>Brachionus urceolaris</i>	11.46	<i>Diaphanosoma sarsi</i>	9.41
<i>Brachionus quadridentatus</i>	9.10	<i>Diaphanosoma sarsi</i>	11.01	Nauplii	11.43	<i>Brachionus urceolaris</i>	9.22
<i>Cyclops nanus</i>	9.07	<i>Cyclops nanus</i>	10.99	<i>Asplanchna sieboldi</i>	9.98	<i>Ceriodaphnia cornuta</i>	9.15
Nauplii	7.09	<i>Cyclops</i> sp.	8.05	<i>Cyclops</i> sp.	8.55	<i>Brachionus quadridentatus</i>	9.09
<i>Diaphanosoma sarsi</i>	7.06	<i>Brachionus rubens</i>	7.39	<i>Mesocyclops leuckarti</i>	7.13	<i>Cyclops</i> sp.	9.01
<i>Mesocyclops leuckarti</i>	7.05	<i>Bosmina</i> sp.	5.89	<i>Brachionus calyciflorus</i>	5.22	<i>Diaptomus</i> sp.	8.25
<i>Brachionus urceolaris</i>	7.05	Nauplii	5.89	<i>Diaptomus</i> sp.	4.71	Nauplii	7.35
<i>Bosmina</i> sp.	5.08			<i>Brachionus rubens</i>	4.30	<i>Keratella cochlearis</i>	6.11
Total	90.90		91.14				90.52
Average dissimilarity (%)							
S <sub>5</sub>		S <sub>6</sub>		S <sub>7</sub>		S <sub>8</sub>	
36.33		24.42		26.58		23.89	
Contributory species							
S <sub>5</sub>		S <sub>6</sub>		S <sub>7</sub>		S <sub>8</sub>	
<i>Bosmina</i> sp.	21.33	<i>Diaphanosoma sarsi</i>	18.89	<i>Diaptomus</i> sp.	16.20	<i>Brachionus calyciflorus</i>	19.24
<i>Ceriodaphnia cornuta</i>	12.82	<i>Bosmina</i> sp.	14.07	<i>Diaptomus gracilis</i>	16.15	<i>Diaptomus gracilis</i>	17.81
<i>Diaptomus</i> sp.	9.64	<i>Brachionus rubens</i>	11.25	<i>Diaphanosoma sarsi</i>	13.21	<i>Diaphanosoma sarsi</i>	15.86
<i>Diaptomus gracilis</i>	8.44	<i>Keratella cochlearis</i>	10.95	<i>Brachionus urceolaris</i>	8.79	<i>Cyclops nanus</i>	10.46
<i>Diaphanosoma sarsi</i>	7.78	Nauplii	10.94	<i>Brachionus</i> sp.	8.72	<i>Diaptomus</i> sp.	7.70

<i>Cyclops nanus</i>	7.51	<i>Ceriodaphnia cornuta</i>	7.84	<i>Cyclops nanus</i>	7.32	<i>Ceriodaphnia cornuta</i>	7.02
<i>Brachionus rubens</i>	7.28	<i>Diaptomus</i> sp.	7.61	<i>Mesocyclops leuckarti</i>	7.31	<i>Cyclops</i> sp.	5.32
<i>Mesocyclops leuckarti</i>	5.76	<i>Cyclops nanus</i>	7.46	<i>Bosmina</i> sp.	5.80	<i>Brachionus rubens</i>	5.31
<i>Brachionus</i> sp.	5.38	<i>Brachionus calyciflorus</i>	6.18	<i>Cyclops</i> sp.	4.39	<i>Bosmina</i> sp.	4.82
<i>Cyclops</i> sp.	5.27						
<i>Brachionus calyciflorus</i>	5.05						
<b>Total</b>	<b>96.26</b>		<b>95.18</b>				<b>93.54</b>
<b>Average dissimilarity (%)</b>							
S <sub>9</sub>		S <sub>10</sub>		December		February	
22.27		22.41		23.26		20.44	
<b>Contributory species</b>							
S <sub>9</sub>		S <sub>10</sub>		December		February	
Species	(%)	Species	(%)	Species	(%)	Species	(%)
<i>Diaptomus gracilis</i>	15.57	<i>Diaptomus gracilis</i>	21.4	<i>Diaptomus gracilis</i>	10.59	<i>Brachionus calyciflorus</i>	13.84
<i>Brachionus urceolaris</i>	14	<i>Diaphanosoma sarsi</i>	14.35	Nauplii	9.22	<i>Brachionus rubens</i>	9.67
<i>Diaptomus</i> sp.	12.11	Nauplii	10.84	<i>Brachionus calyciflorus</i>	9.00	Nauplii	8.97
<i>Diaphanosoma sarsi</i>	10.84	<i>Brachionus calyciflorus</i>	9.12	<i>Bosmina</i> sp.	8.55	<i>Brachionus urceolaris</i>	8.13
<i>Cyclops nanus</i>	9.50	<i>Bosmina</i> sp.	7.40	<i>Ceriodaphnia cornuta</i>	7.62	<i>Brachionus quadridentatus</i>	8.02
<i>Mesocyclops leuckarti</i>	7.07	<i>Ceriodaphnia cornuta</i>	6.05	<i>Brachionus quadridentatus</i>	7.45	<i>Mesocyclops leuckarti</i>	7.43
Nauplii	6.90	<i>Brachionus rubens</i>	5.54	<i>Mesocyclops leuckarti</i>	7.18	<i>Bosmina</i> sp.	6.74
<i>Brachionus rubens</i>	5.17	<i>Brachionus quadridentatus</i>	5.44	<i>Diaphanosoma sarsi</i>	6.75	<i>Diaphanosoma sarsi</i>	6.73
<i>Cyclops</i> sp.	5.09	<i>Cyclops nanus</i>	5.29	<i>Brachionus rubens</i>	6.21	<i>Ceriodaphnia cornuta</i>	6.45
<i>Brachionus quadridentatus</i>	4.77	<i>Cyclops</i> sp.	5.28	<i>Diaptomus</i> sp.	6.06	<i>Keratella cochlearis</i>	5.94
		<i>Diaptomus</i> sp.	5.19	<i>Brachionus</i> sp.	6.02	<i>Diaptomus</i> sp.	5.08
				<i>Cyclops nanus</i>	5.69	<i>Cyclops nanus</i>	5.05
<b>Total</b>	<b>91.03</b>		<b>95.90</b>		<b>90.35</b>		<b>92.04</b>

**Supplementary Table S3.** Pearson's correlation coefficient among ecological parameters, zooplankton abundance and diversity indices (a) December (b) February

	T	pH	DO	TR	TDS	N	P	R	CP	CC	NP	TZ	H'	e	J	D
T	1															
pH	-0.253	1														
DO	-0.207	0.836	1									<b>a</b>				
TR	0.703	-0.553	-0.457	1												
TDS	0.177	-0.124	-0.006	0.198	1											
N	-0.275	-0.534	-0.288	0.294	0.074	1										
P	-0.163	-0.356	-0.151	0.203	0.231	0.673	1									
R	-0.090	-0.218	-0.257	0.251	0.259	0.524	0.281	1								
CP	-0.140	-0.729	-0.555	0.152	0.279	<b>0.719</b>	0.324	0.539	1							
CC	-0.528	0.070	0.325	-0.293	0.416	0.397	0.214	-0.098	0.332	1						
NP	0.098	-0.158	0.094	0.392	-0.030	0.528	0.291	0.553	0.162	-0.150	1					
TZ	-0.297	-0.366	-0.162	0.150	0.400	<b>0.809</b>	0.416	<b>0.797</b>	<b>0.798</b>	0.449	0.515	1				
H'	-0.469	-0.160	-0.189	-0.042	0.041	<b>0.602</b>	<b>0.826</b>	0.552	0.291	0.053	0.295	0.481	1			
e	-0.131	-0.227	0.029	-0.118	-0.224	0.208	<b>0.678</b>	-0.252	-0.004	-0.026	0.051	-0.134	0.461	1		
J	-0.481	0.001	-0.161	-0.087	-0.014	0.446	<b>0.692</b>	0.537	0.122	-0.051	0.216	0.355	<b>0.965</b>	0.319	1	
D	0.468	0.266	0.166	-0.004	-0.081	<b>-0.756</b>	<b>-0.910</b>	-0.478	-0.403	-0.230	-0.352	-0.567	<b>-0.961</b>	-0.533	<b>-0.868</b>	1

	T	pH	DO	TR	TDS	N	P	R	CP	CC	NP	TZ	H'	e	J	D
T	1															
pH	-0.601	1											<b>b</b>			
DO	-0.549	0.778	1													
TR	0.902	-0.695	-0.567	1												
TDS	-0.169	0.004	-0.066	0.032	1											
N	-0.054	-0.495	-0.277	0.090	0.153	1										
P	0.008	-0.342	0.038	0.168	0.225	0.632	1									
R	0.176	0.315	0.056	0.028	0.355	-0.176	-0.471	1								
CP	-0.131	-0.482	-0.270	0.130	0.238	0.418	0.190	-0.382	1							
CC	-0.035	-0.400	-0.199	0.025	0.070	0.474	<b>0.847</b>	<b>-0.645</b>	0.178	1						
NP	0.291	0.110	0.079	0.046	0.019	-0.246	-0.541	<b>0.798</b>	-0.186	<b>-0.629</b>	1					
TZ	0.161	-0.409	-0.286	0.161	0.504	0.456	0.244	0.320	0.497	0.196	0.436	1				
H'	0.318	-0.264	-0.349	0.451	0.367	0.353	0.572	-0.140	0.060	0.474	-0.490	0.093	1			
e	-0.266	0.440	0.113	-0.320	-0.056	-0.016	0.245	-0.130	-0.392	0.402	-0.483	-0.285	0.436	1		
J	0.486	-0.455	-0.411	<b>0.669</b>	0.355	0.316	0.470	-0.141	0.178	0.283	-0.384	0.067	<b>0.900</b>	0.034	1	
D	-0.200	0.107	0.254	-0.297	-0.304	-0.317	-0.576	0.143	0.080	-0.521	0.543	-0.002	<b>-0.969</b>	<b>-0.638</b>	<b>-0.776</b>	1

Abbreviations: T- Temperature; TR- Transparency; N- Nitrates; P- phosphates; R- Rotifera; CP- Copepoda; CC- Cladocera; NP- Nauplii; H'- Shannon-Weiner Diversity Index; e- Evenness Index; J- Margalef Species Richness Index; D- Dominance Index.