

Population dynamics of planktonic rotifers in the southern coastal area of Bangladesh

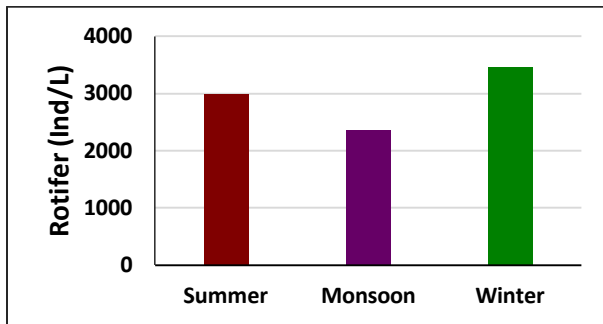


Figure 1
Seasonal variation of rotifer

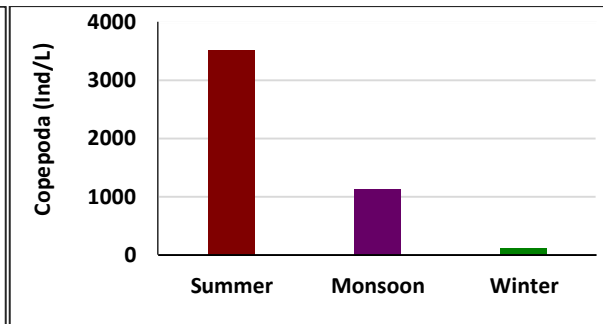


Figure 2
Seasonal variation of copepoda

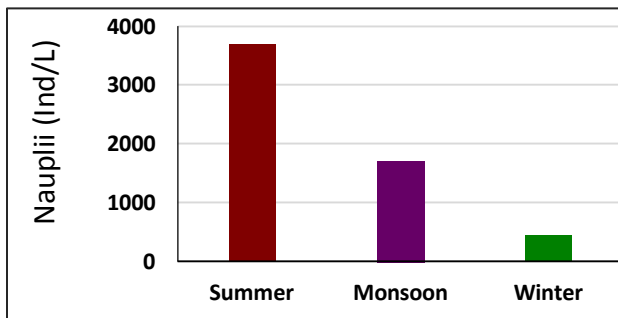


Figure 3
Seasonal variation of nauplii

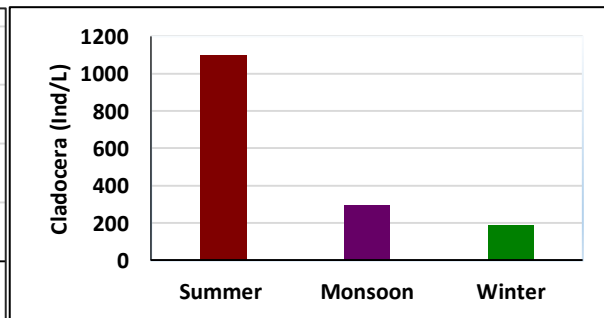


Figure 4
Seasonal variation of cladocera

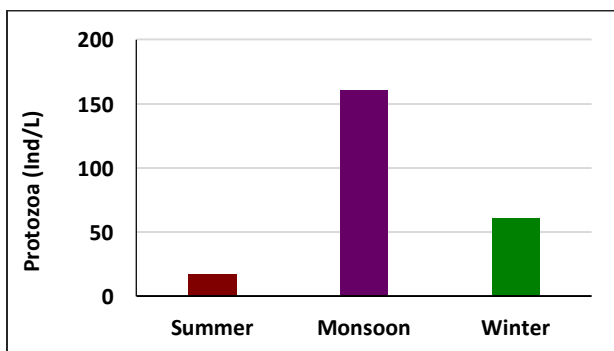


Figure 5
Seasonal variation of protozoa

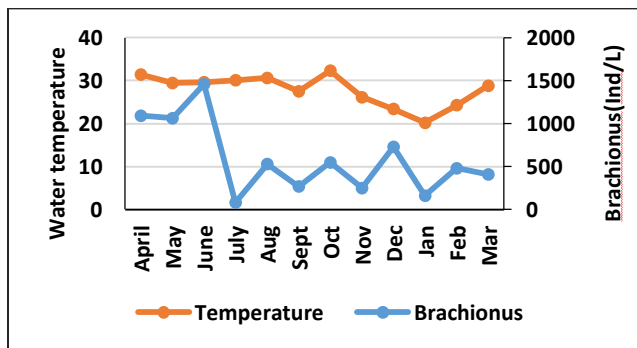


Figure 6
Effects of water temperature on abundance of *Brachionus*

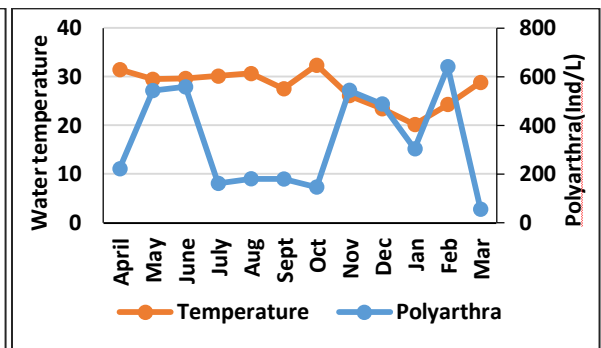


Figure 7
Effects of water temperature on abundance of *Polyarthra*

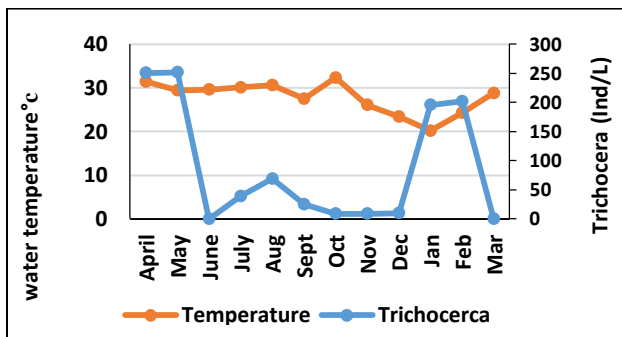


Figure 8
Effects of water temperature on abundance of *Trichocerca*

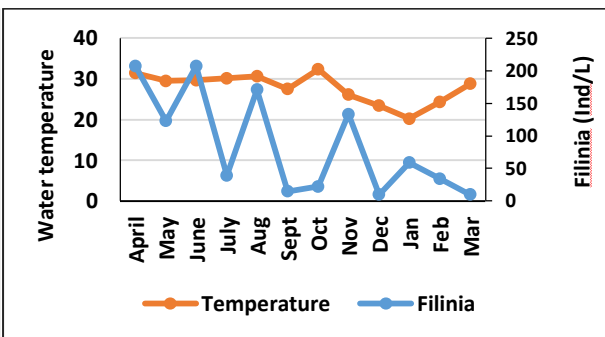


Figure 9
Effects of water temperature on abundance of *Filinia*

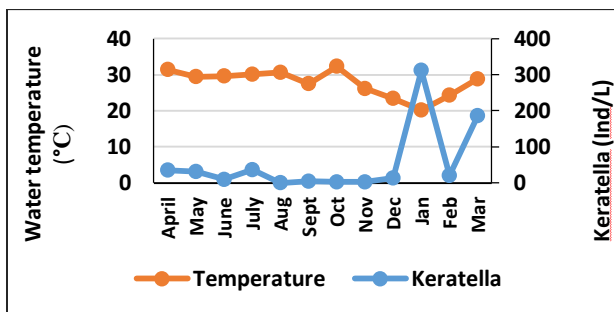


Figure 10
Effects of water temperature on abundance of *Keratella*

Table 2
Site wise monthly variations in the abundance (individual/liter) of rotifer in the study area during April 2006 to March 2007

Sites	2006												2007			Monthly average
	April	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar				
Site-1	2889	1299	2757	5340	1296	336	483	783	111	54	2607	264	1517.09			
Site-2	3554	264	96	183	675	267	288	66	186	282	396	99	261.84			
Site-3	948	66	390	390	375	156	789	2394	75	117	66	312	505.34			
Site-4	66	156	86	300	102	306	495	66	969	144	11628	717	1252.59			
Site-5	66	156	122	93	126	72	66	150	87	132	276	144	121.34			
Site-6	858	6276	708	363	456	99	66	654	462	93	237	237	857.34			
Site-7	1173	66	0	417	102	495	78	105	195	153	75	969	295.4			
Site-8	120	1812	0	2973	915	519	152	336	1890	1779	1203	477	1013.6			
Average	808.09	1260.64	524.96	1255.84	504.71	280.09	326.96	568.09	495.71	339.34	2059.84	401.21	736.94			

Table 3
Total number of dominant rotifer population (number/ liter) in eight sites from April, 2006 to March, 2007

Name of the Rotifers	April /06	May/06	June/06	July/06	Aug/06	Sept/06	Oct/06	Nov/06	Dec/06	Jan/07	Feb/07	Mar/07	Total
Brachionus	1091	1062	1458	81	529	268	547	248	729	160	479	408	7060
Polyarthra	222	543	558	162	181	180	147	544	488	304	641	56	4026
Trichocerca	251	252	0	39	69	25	9	9	10	196	202	0	1062
Filinia	207	123	207	39	171	15	22	133	10	59	34	10	1030
Keratella	35	31	9	36	0	4	2	2	13	312	20	186	650

Table 4
Co-efficient of correlation (r) between physico-chemical parameters and rotifer of eight sites in Bakerganj, Barisal during the study period

Sl. No.	Relationship	Correlation "r"	Calculated "t"	Tabulated "t" at 5% level of significance
1	Rotifer and water temperature	-0.038148	0.1207	
2	Rotifer and pH	-0.1928	0.6213	
3	Rotifer and DO	+0.4454	1.5731	1.812
4	Rotifer and Air temperature	-0.1509	0.4827	