



### Short Communication

## Chroococcales of Belgaon reservoir of Ashti Taluka in Beed District of Maharashtra

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#### ABSTRACT

Algae are potential colonizers of water bodies. In order to study Algal diversity of order chroococcales. This critical study of primitive order chroococcales form class cyanophyceae in Belgaon dam in Ashti taluka of Beed district. Algal samples wear collected in monthly interval from three selected sites in the period June 2008 to may 2009. In present investigation 38 taxa under 10 genera were found from 3 sites of Belgaon dam i.s. *Microcystis*, *Chroococcus*, *Gloeocapsa*, *Aphanocapsa*, *Aphanothece*, *Synechococcus*, *Synechocystis*, *Merismopedia*, *Dactylococcopsis* and *Johannesbaptistia*.

**Key words** Chroococcales, Belgaon Dam, Cyanophyceae.

#### INTRODUCTION

Belgaon Dam is one of the main Dams near 10 km from Ashti city .The water of Dam is utilized as drinking purpose in Ashti city as well as irrigation. Algae constitute the autotrophic component of aquatic ecosystem. Survey of literature reveals that very few workers have been attention on studies of algal diversity (Sarode and kamat 1979, Ashtekar 1980, Kamble 2008 and Andhale 2008 ).During present investigation 38 taxa under 10 genera were found from 3 sites of Belgaon dam.

#### MATERIALS AND METHODS

In order to study Algal diversity of Belgaon dam 3 sites were selected. Algal samples wear collected in monthly interval from three selected sites in the period June 2008 to May 2009.Planktonic net were used for collection of Phytoplanktons. Collected samples were preserved in 4 % formalin for further taxonomic investigation. Fresh as well as preserved samples were observed thoroughly under research microscope and identified with the help of standard literature.

#### RESULTS AND DISCUSSION

The members of Cyanophyceae recorded were quite diverse. This class consists of genera of Chroococcales, Pleurocapsales, Nostocales, and Stigonematales.The member chroococcales various genera with maximum number of species were *Microcystis*, *Chroococcus*, *Gloeocapsa*, *Aphanocapsa*, *Aphanothece*, and *Merismopedia*. The genera with two species were *Synechococcus* and *synechocystis*. The genera with single species were *Dactylococcopsis* and *Johanesbatptistia*. During present study member chroococcales were recorded at all the sites of study area. The member's chroococcales were found abundant in winter and summer seasons. Similar kind of results was recorded by Whitton (1969), Ashtekar (1980), Shirsat *et al.*, (2004), Magar (2008) and Kamble (2008). Blooms of *Microcystis* were observed in hot months like February to April. (Ganapati 1940, Shing 1953, Khanna and Bhutiani 2003 and Vijayvergia 2007). Hence it is concluded that taxa chroococcales were recorded at all the sites of Belgaon Dam.

**Table 1: Chroococcales of Belgaon dam in Ashti taluka of Beed district.**

Sr. No.	Name of Chroococcales taxa	Sr. No.	Name of Chroococcales taxa
1	<i>Microcystis aeruginosa</i>	20	<i>Gloeocapsa stegophila</i>
2	<i>Microcystis elabens</i>	21	<i>Aphanocapsa biformis</i>
3	<i>Microcystis lamelliformis</i>	22	<i>Aphanocapsa elachista</i>
4	<i>Microcystis puleverea</i>	23	<i>Aphanocapsa grevillei</i>
5	<i>Microcystis robusta</i>	24	<i>Aphanocapsa montana</i>
6	<i>Microcystis viridis</i>	25	<i>Aphanothece castagnei</i>
7	<i>Chroococcus cohaerens</i>	26	<i>Aphanothece saxicola</i>
8	<i>Chroococcus indicus</i>	27	<i>Aphanothece stagnina</i>
9	<i>Chroococcus limneticus</i>	28	<i>Synechococcus aeruginosus</i>
10	<i>Chroococcus minor</i>	29	<i>Synechococcus cedrorum</i>
11	<i>Chroococcus minutus</i>	30	<i>Synechocystis aquatilis</i>
12	<i>Chroococcus protocystis</i>	31	<i>Synechocystis pevalekii</i>
13	<i>Chroococcus turgidus</i>	32	<i>Merismopedia aeruginea</i>
14	<i>Chroococcus tenex</i>	33	<i>Merismopedia tenuissima</i>
15	<i>Gloeocapsa calcgrea</i>	34	<i>Merismopedia gluaca</i>
16	<i>Gloeocapsa decoriticans</i>	35	<i>Merismopedia minima</i>
17	<i>Gloeocapsa magma</i>	36	<i>Merismopedia pncitata</i>
18	<i>Gloeocapsa gelatinosa</i>	37	<i>Dactylococcopsis raphidoides</i>
19	<i>Gloeocapsa rupestris</i>	38	<i>Johannesbaptistia pellucida</i>

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