



FLORA OF ORDER CHAETOPHORALES FROM TARAI REGION OF U.P., INDIA

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Abstract

The present paper deals with flora of order Chaetophorales from Tarai region of U.P., India. Total of 24 taxa includes 9 genera, 21 species and 5 varieties were reported. All these forms are being reported for the first time from Tarai region of U.P., they constitute new records for the area. All the taxa were recorded in the polluted water, which is a new recommendation of their habitats.

Key words : Phycology, Chaetophorales, Tarai region, polluted water.

Introduction

A good deal of work has been done concerning the occurrence and distribution of Chaetophorales (Gupta, 1956; Randhawa and Venkataraman, 1962; Saxena, 1962; Kamat, 1974; Chaturvedi and Pandey, 1976; Singh *et al.*, 1981; Pandey *et al.*, 1983; Habib and Pandey, 1988; Mahato, 1992; Bharathan, 2002; Mishra and Srivastava, 2003 and Sankaran, 2005). 24 taxa of Chaetophorales have been collected from Bahraich and Gonda district of Tarai region of Uttar Pradesh, India.

District Gonda lies in 26 degree – 47 degree and 27-51' North latitude and 81 degree – 46 degree East longitudes. District Bahraich lies between Latitude 27 degree – 04 degree north and longitude 81degree – 03' and 82 degree 13' East.

Materials and Methods

Sample collections have been made from different localities of Gonda and Baharich district for 6 months (Sep. 2015 to March 2016). Samples were preserved in 5% formalin with little amount of glycerine. Photomicrography was done by Nikon Lavo fot with attached camera.

Taxa were identified using classical monograph. (Tiffany and Britton, 1952; Cox and Bold, 1974; Tupa, 1974).

Results and Discussion

24 taxa of Chaetophorales are enumerated in table 1. All the forms of Chaetophorales were collected epiphytic on different submerged plant. Prasad and Mishra (1984) reported 8 taxa of Chaetophorales from Anadaman and Nicobar. Kant and Gupta (1998) described 29 taxa of Chaetophorales from Ladakh division. Sanskaran (2005) have reported 5 species of Chaetophorales from Anaimalihilregion. Nurkhede and Ragothaman (2007) have reported 94 Chaetophoralean species from Jalgoan Maharastra. Zoospores and akinetes are seen in *Aphanochaete repens*. Spermocarp and oogonia are seen in *Colechaete pseudosoluta*. One to several pyrenoids with parietal Chloroplast are seen in *Chaetophora attenuata* and *Stigeoclonium nannum*.

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Table 1 : Alga of order Chaetophorales recorded from Tarai Region.

S. no.	Order Chaetophorales
1.	<i>Chaetophora attenuata</i> Hazen
2.	<i>Chaetophora elegans</i> (Roth) Agardh
3.	<i>Chaetophora pisciformis</i> (Roth) Agardh
4.	<i>Stigeoclonium farctum</i> Berthold
5.	<i>Stigeoclonium lubricum</i> (Dillwyn) Kuetzing
6.	<i>Stigeoclonium nannun</i> (Dillwyn) Kuetzing
7.	<i>Stigeoclonium subsecundum</i> Kuetzing
8.	<i>Stigeoclonium tenue</i> (Agardh) Kuetzing
9.	<i>Leptosira medicana</i> Borzi
10.	<i>Chaetopeltis orbicularis</i> var. minor Moebius
11.	<i>Chaetopeltis orbicularis</i> var. magalacystis Schmidle
12.	<i>Protoderma frequens</i> Printz
13.	<i>Protococcus viridis</i> Agardh
14.	<i>Pseudulvella americane</i> var. <i>indica</i> Philipose
15.	<i>Aphanochaete repens</i> Braun
16.	<i>Aphanochaete magma</i> Godward
17.	<i>Chaetosperidium globosum</i> (Nordst) Klebahn
18.	<i>Coleochaete ovalis</i> Smith
19.	<i>Coleochaete pulvinata</i> var. <i>indica</i> Prasad and Asthana
20.	<i>Coleochaete scutata</i> var. <i>minor</i> Moebius
21.	<i>Coleochaete orbicularis</i> Pringsheim
22.	<i>Coleochaete nitellarum</i> Jost
23.	<i>Coleochaete soluta</i> (Breb) Pringsheim
24.	<i>Coleochaete pseudosoluta</i> Gauthier-Lievre

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