



## A study on *Cladophora* Kuetz from Tarai region of Uttar Pradesh

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### Abstract

Present paper deals with 23 taxa of genus *Cladophora* which includes 20 genera 13 species and 5 varieties. Of these *Cladophora fracta* Kuetz, *Cladophora limiformis* Grun, *Cladophora intermedia* Foslie, *Cladophora uberrima* Lambert and *Cladophora crispata* are new records for the area.

**Keywords:** Phycology, *Cladophora*, tarai region

### Introduction

A good deal of work has been done concerning the occurrence and distribution of *Cladophora* in India. Bala Krishnan (1961) Kale (1966) Sinha (1968) Nijamuddin and Begum (1973) Sinha and Ahmad (1973) Gajaraia (1979) Prasad and Vijay kumari (1979) Verma (1981) Prasad and Mishra (1982) Niiyama (1989) Sharma and Keshri (1993) Adhikari (1999). 19 taxa of *Cladophora* have been collected from Deoria and Gorakhpur district. District Deoria lies between 26° - 5' and 83° - 79' East. Total area of Deoria district is 2573.5 sq. Km. District Gorakhpur lies between latitude 26° - 40' north and longitudes 83° - 22' East. Geographical area of Gorakhpur district is 3843.8 sq Km.

### Materials and Method

For collecting *Cladophora* supporting plants of Chara, Hydrilla and Ceratophyllum were collected. Other sites for collection of *Cladophora* are Tal, canal, lakes and ponds. Collection is done with six month (Sep to Feb). Photomicrography was done by Nikon lavofot with attached camera. Identification is made with classical monograph includes Tiffany and Briton (1952) Printz (1964) Tupa (1974) and Prasad and Mishra (1982).

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### Results and Discussion

Total of 19 taxa 20 genera 13 species and 3 varieties are reported from Deoria and Gorakhpur district. *Cladophora fracta* Kuetz, *Cladophora limiformis* Grun are reported from Gorakhpur district. *Cladophora intermedia* foslie, *Cladophora uberrima* lambert are reported from Deoria district. Prasad and Mishra (1982) have reported 2 *Cladophora* species from Andaman and Nicobar Island. Niiyama(1989) has described morphology and classification of *Cladophora aegagropila* Rabenhorst. Sharma and Keshri(1993) have reported 3 taxa of *Cladophora glomerata*. Adhikary (1999) has reported *Cladophora glomerata* in Chilka lake Orrisa.

### Table-1 *Cladophora* species collected at north eastern U.P.

#### S.N. *Cladophora* Species

1. *Cladophora crystallina* Kuetz
2. *Cladophora fracta* Kutez var. *flavescens* Newton
3. *Cladophora intermedia* Foslie
4. *Cladophora crispata* Kuetz
5. *Cladophora limiformis* Grun
6. *Cladophora uberrimma* Lambert
7. *Cladophora flavescens* Newton
8. *Cladophora glomerata* Kuetz var. *Vandenhock*
9. *Cladophora flexuosa* (Griff) Harvey
10. *Cladophora intermedia* foslie var. *inflata*
11. *Cladophora lehmanniana* Kutzing



12. *Cladophora pellucida* (Hudson) Kutzing
13. *Cladophora uncinella* Harvey
14. *Cladophora hutchinsiae* Kutzing
15. *Cladophora clavuligera* Grunow
16. *Cladophora nitellopsis* Boergesen
17. *Cladophora exigua* Zeller
18. *Cladophora insignis* Kutzing
19. *Cladophora aegagropila* Rabenhorst
20. *Cladophora crispata* var. *vitrea* Raben
21. *Cladophora incurvata* West and West
22. *Cladophora roettleri* Kuetz
23. *Cladophora simplicoinicula* var. *lacustris*

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