



Morphological study on *Stigeoclonium* species from Bihar lake Pratapgarh (U.P.) India

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Received:16.06.2016

Revised:17.07.2016

Accepted:03.09.2016

Abstract

The Present paper deals with taxa of genus *Stigeoclonium* which includes 22 genera 24 species and 3 varieties. Of these *Stigeoclonium farctum* Berthold, *Stigeoclonium longipilum* Kuetz, *Stigeoclonium variable* Naegeli, *Stigeoclonium fascicularis* Kuetz and *Stigeoclonium pachydermum* Prescott have been reported for the first time from Bihar lake, they constitute new record for the area.

Keywords: *Phycology, Stigeoclonium Bihar lake Pratapgarh.*

Introduction

A good deal of work has been done on the Morphological studies on the *Stigeoclonium*. Singh (1954) Saxena (1962) Randhawa and Venkataraman (1962) Sharma and Kargupta (1981) Prasad and Fatma (1982) Prasad and Mishra (1982) Dwivedi (1986) Kargupta and Jha (1987) Agrawal (1990) Mahto and Das (1992) Nirmala and Bharthan (2002) Mishra and Srivastava (2003) Sankaran (2005) and Jwale (2007). District Pratapgarh lies in 28 degree – 40 degree and 30 – 52' North latitude and 60 degree – 45 degree east longitude.

Materials and Method

The specimen was collected from fresh water habitats of Bihar lakes. Supporting plants of *Ipomea*, *Nelumbo*, *Hydrilla* and *Utricularia* are used for the collection of *Stigeoclonium* species. Some species were collected from epiphytic angiospermic leaves. Collection is done with seven months (Sep 2015 – Mar 2016). Samples were preserved in 4% formalin with little amount of glycerine. Photomicrography is done with Nikon Lavofot II with attached camera. Identification is based on Cox and Bold (1966) Islam (1967) Kargupta and Jha (1983) fatma (1990).

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Results and Discussion

Sharma and Kargupta (1983) have reported 4 taxa of *Stigeoclonium* from West Bengal. Prasad and Mishra (1984) have reported a new species of *Stigeoclonium* from Andaman and Nicobar Islands. Kargupta (1989) has reported one species of *Stigeoclonium* from Bihar. Nirmala (1990) has reported 3 species of *Stigeoclonium* from Chennai. Sharma and Jha (1998) have reported one species of *Stigeoclonium* from West Bengal. Sankaran (2005) has reported 5 species of *Stigeoclonium* from Anamali Hill ranges from Tamilnadu. *Stigeoclonium longipilum* Kuetz, *Stigeoclonium fascicularis* Kuetz, *Stigeoclonium pachydermum* Prescott, *Stigeoclonium variable* Naegeli Kuetzing and *Stigeoclonium farctum* Berthold have been first time reported from the Bihar lake. Total of 22 genus 24 species and 3 varieties of *Stigeoclonium* have been collected from Bihar lake

List of *Stigeoclonium* species collected from Bihar lake Pratapgarh (U.P.)

1. *Stigeoclonium fascicularis* Kuetz var. *glomeratum* Nurul Islam
2. *Stigeoclonium Pascheri* Vischer Cox and Bold
3. *Stigeoclonium farctum* Berthold
4. *Stigeoclonium pachydermum* Prescott
5. *Stigeoclonium longipilum* Kuetz
6. *Stigeoclonium nudiusculum* Kuetz
7. *Stigeoclonium indicum* Kuetz
8. *Stigeoclonium lubricum* Kuetz Salina Dixit



9. *Stigeoclonium aestivale* Collins
10. *Stigeoclonium amoenum* Islam var. *Novize landicum*
11. *Stigeoclonium nannum* (Dillwyn) Kutzing
12. *Stigeoclonium segare* Islam
13. *Stigeoclonium flagelliferum* Kutzing
14. *Stigeoclonium subsecundum* Kuetz
15. *Stigeoclonium setigerum* Kutzing
16. *Stigeoclonium variable* Naegeli Kutzing
17. *Stigeoclonium tenue* var. *uniforme*
18. *Stigeoclonium fasciculare* Kuetz
19. *Stigeoclonium subsecundum* Kuetz
20. *Stigeoclonium protensum* Dillwyn
21. *Stigeoclonium elongatum* Hassal Kutzing
22. *Stigeoclonium Subuligerum* Kutzing

Acknowledgement

The author is grateful to Prof. G.L. Tiwari, ex Head Botany Department Allahabad Central University Allahabad for facilities and encouragements.

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