



RESEARCH ARTICLE.....

Seasonal fluctuation in biochemical constituents of seaweeds of Chilika Lake

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ABSTRACT..... The present study deals with monthly as well as seasonal variation in the major biological composition of different seaweeds namely *Enteromorpha intestinalis* and *Chaetomorpha media* of chlorophyceae. *Rosenvingea intricate* of phaeophyceae and *Gracillaria verrucosa*, *Gracillaria lichenoids* and *Ceramium elegans* of rhodophyceae were available during March 2014 to February 2015 in Chilika Lake of Odisha. Among the three major groups of seaweeds, red algae (rhodophyceae) are rich in carbohydrate content and green algae (chlorophyceae) are rich in protein and lipid contents as compared to other algae. Most of the algal species showed maximum values of major biochemical constituents during post-monsoon period. However, proteins, carbohydrates and lipids play an important role in influencing the calorific value of brown, red and green algae, respectively. The red algae showed highest calorific value (184.32 KCal/g) among the other two algae.

KEY WORDS..... Seaweeds, Biochemical constituents, Chilika lake, Calorific value

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