

Post thane storm biodiversity changes of algal species observed in coastal regions of Cuddalore district, Tamil Nadu, India.

Murali R ¹, Vijayalakshmi TM².

¹Department of Plant Biology, Plant Biotechnology, R.K.M.Vivekananda College

²Department of Biochemistry, D.G.Vaishnav College, Arumbakkam, Chennai, India. 600106.

Corresponding author email: muralimurali2008@gmail.com.

From International Conference on Biosciences- Trends in Molecular Medicine.

Post Graduate Department of Biochemistry, Dwaraka Doss Goverdhan Doss Vaishnav College, Arumbakkam, Chennai 600 106, India. 7-8 February 2012.

American J of Bio-pharm Biochem and Life Sci 2012 March, Vol. 1 (Suppl 1): A54.

ABSTRACT

Thane storm had created a miserable disaster in most of the coastal belts of South India. This natural calamity had changed the chemical and biological properties of the waterbodies. In the current study, changes observed in the biodiversity of algae, located in the coastal area of Cuddalore district and the impact of the physicochemical parameters on their growth were assessed. Results obtained have shown a reduction in the values for some of the critical physicochemical parameters, which serve as the nutritive source for the growth of algae. The predominant algal species belonging to Chlorophyceae, Pheophyceae, Rhodophyceae and Cyanophyceae that were observed in the study area during the month of July had been changed to Chlorophyceae, Pheophyceae, Xanthophyceae and Chrysophyceae during the month of January after the Thane storm. The observed change is due to tidal shifting of sea water on the surface which shall determine the algal biodiversity of the study area, until another natural calamity strike the study area.