



Physical Research Laboratory

Tuesday Seminar

Marine Heterotrophic Nitrogen Fixation

Abstract

The fixed nitrogen is the most important nutrient fuelling phytoplankton growth in the ocean. Thanks to the N₂-fixers, a special group of marine plankton that are able to convert dissolved nitrogen gas into bioavailable nitrogen such as ammonium. Marine nitrogen-fixing cyanobacteria play a central role in the open-ocean microbial community. Once thought ocean to be dominated by cyanobacteria in the warm oceans, it is now clear that marine N₂-fixing organisms in the ocean are more diverse, and are geographically more widespread than expected. In this talk, I will be discussing the types of N₂ fixers and how they contribute to the nitrogen budget of the ocean. In addition, lack of knowledge about nitrogen fixation in the Indian Ocean will also be discussed.

**Speaker: Mr. Himanshu Saxena
JRF, GSDN**

Date	Time	Venue
11-December-2018	16:00 hrs	Ground Floor Lecture Hall

All are invited to attend and participate in discussion

**Tea at 15:30 Hrs
(Near Ground Floor Lecture Hall Foyer)**

A .K. Sudheer, Geosciences Division