



Geosciences Division
Physical Research Laboratory

Tuesday Seminar

Nitrogen Fixation during Summer Monsoon in the Bay of Bengal

Abstract

Primary producers are the first link in the food chain. Their production (i.e., primary production) in oceans is limited by the availability of light and nutrients. Dominantly, it is the nutrient (primarily bioavailable nitrogen) that regulates the primary production. Various mechanisms are responsible for providing nutrients to the primary producers. N_2 fixation is one such process for supplying bioavailable nitrogen required for the sustenance of primary producers. It has been found that the N_2 fixation rates in the Arabian Sea are highest among other oceans. But the Bay of Bengal, north-eastern part of the Indian Ocean, is known for 'no study' of N_2 fixation rates. Therefore, to contribute to the present knowledge of N_2 fixation rates in the Indian Ocean and to know the contribution of fixed nitrogen by N_2 fixers to the primary productivity, N_2 fixation rates in the Bay of Bengal during summer monsoon were measured. In this seminar, I will be discussing the N_2 fixation phenomenon and the potential role of summer monsoon on the N_2 fixation in the Bay of Bengal.

Speaker: Mr. Himanshu Saxena
JRF, GSDN

Date	Time	Venue
4-June-2019	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