



## 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<sub>2</sub> fixation is one such process for supplying bioavailable nitrogen required for the sustenance of primary producers. It has been found that the N<sub>2</sub> 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<sub>2</sub> fixation rates. Therefore, to contribute to the present knowledge of N<sub>2</sub> fixation rates in the Indian Ocean and to know the contribution of fixed nitrogen by N<sub>2</sub> fixers to the primary productivity, N<sub>2</sub> fixation rates in the Bay of Bengal during summer monsoon were measured. In this seminar, I will be discussing the N<sub>2</sub> fixation phenomenon and the potential role of summer monsoon on the N<sub>2</sub> fixation in the Bay of Bengal.

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

<b>Date</b>	<b>Time</b>	<b>Venue</b>
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)