



Physical Research Laboratory

Tuesday Seminar

Carbon fixation in the oxygen minimum zones of the ocean

Abstract

Primary production is one of the most important metabolic process and about half of the global primary production (~50 Peta gram of carbon per year) is generated in the euphotic layer of the ocean. But about 75% of the global ocean is dark ocean i.e., below ~ 200 m depth, with more than 98% of the global dissolved inorganic carbon pool. Recent researches showed that carbon fixation also occurs in the dark ocean. This dark carbon fixation (chemoautotrophic) has been suggested to contribute significantly to the global ocean carbon budget, with ~2% of the total estimated yearly marine primary production. In this seminar, carbon fixation in the oxygen minimum zones of the ocean will be discussed.

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

Date	Time	Venue
25-February-2020	16:00 hrs	Ground Floor Lecture Hall

All are invited to attend and participate in discussion

Tea at 15:30 Hrs

A .K. Sudheer, Geosciences Division