Physical Research Laboratory

Tuesday Seminar

Elemental stoichiometry in the Ocean

Abstract

Around eight decades ago, Alfred C. Redfield established that the plankton elemental composition is similar to the composition of inorganic nutrients in the ocean (C:N:P =106:16:1). This elemental stoichiometric similarity, called as Redfield Ratio, has been the cornerstone in ocean biogeochemistry as it is used to infer ocean biogeochemical processes including the patterns of phytoplankton nutrient limitation and the linkages between different nutrient cycles.

Studies based on numerical models, field observations and laboratories have shown variable C:N:P among ocean plankton communities. During the talk, I will discuss the latitudinal variation in stoichiometry in global ocean and the possible mechanisms behind such variation. Multiple nutrient limitation concept will be discussed to understand the optimal stoichiometry of plankton and their different growth phases.

Speaker: **Ms. Deepika Sahoo**
JRF, GSDN

Date	Time	Venue
9-January-2018	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