Physical Research Laboratory

Special Seminar

C:N:P Ratio: A Driver of Ocean Biogeochemistry

Abstract

Until recently, carbon, nitrogen, phosphorous have been known to remain in a specific proportion (C:N:P = 106:16:1) in the ocean. This ratio is known as the Redfield ratio. Recent studies have reported that the C:N:P ratio in the dissolved inorganic nutrients and phytoplankton communities deviate from the canonical Redfield ratio. Growth rate and nutrient limitation hypotheses have been proposed to understand this variation in the world ocean. However, no stoichiometric studies have been undertaken in the northern Indian ocean, despite that this region is believed to provide a natural *in situ* laboratory to understand biogeochemical processes. In this talk, I will discuss the basic understanding of variation in stoichiometry in general, and the role of environmental factors affecting the variation in the Bay of Bengal using a conceptual model in particular.

.

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

Date	Time	Venue
24-August-2018	14:00 Hrs	Nano Sims Hall

All are invited to attend and participate in discussion

A .K. Sudheer, Geosciences Division