Physical Research Laboratory

Tuesday Seminar

Impact of the Oxygen minimum zone (OMZ) on marine Zinc cycle: Results from the GEOTRACES GI-10 cruise

Abstract

Zinc (Zn) is considered as a key trace element for primary production in seawater along with the Iron. Zinc showed a nutrient type behaviour with lower concentration in the surface waters than underlying waters. A strong and significant correlation is observed between Silicate (Si) and Zn in the GI-10 section. However, a lower slope is observed between Zn vs. Si in the Northern Indian Ocean compared with the global data. In addition to this, decoupling of Zinc and Silicate has been observed in the OMZ waters of the Northern Indian Ocean. Results are suggesting that water column oxygen depletion has a substantial impact on Zn biogeochemical cycling, impacting the global relationship between Zn and major nutrients. In this talk, I will discuss about the Zn distributions and its internal cycling in the Northern Indian Ocean.

Speaker: Mr. Venkatesh Chinni
SRF, GSDN

Date	Time	Venue
13-June-2017	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