

India

Nine groups from India initiated working on trace elements and isotope studies in the Arabian Sea, the Bay of Bengal and associated estuaries. Funding from Ministry of Earth Sciences (MoES) India has been released to some of the groups working on Indian GEOTRACES. Indian GEOTRACES contributed INR one million towards the GEOTRACES International Data Centre from the funding obtained from MoES. We are in process of acquiring clean sampling system for Indian GEOTRACES programme. The system should be operational by the end of this year.

Our studies on some of the less contamination prone trace elements and isotopes were continued on the samples collected using conventional techniques. Nd isotope compositions in water columns of the Bay of Bengal along 87° E transect (Figure 5) are analysed, results of two profiles are given in Figure 5. Results display significant contribution of non-radiogenic Nd from the Ganga and the Brahmaputra river system to the Bay of Bengal water.

Figure 5: ϵ_{Nd} in the water columns of Bay of Bengal

Conference/meeting/ Session arranged

Organised a session, “OS08: Trace Elements and Isotopes in Oceans” in Asia Oceania Geosciences Society conference 2010, Hyderabad, July 5-9, 2010

Publications

1. Rahaman W., and Singh S. K. and Raghav S. (2010) Dissolved Mo and U in rivers and estuaries of India: Implication to geochemistry of redox sensitive elements and their marine budgets, *Chemical Geology* 278, 160–172, doi:10.1016/j.chemgeo.2010.09.009
2. Singh S. P., Singh S. K., Bhushan R. (2011) Behavior of dissolved redox sensitive elements (U, Mo and Re) in the water column of the Bay of Bengal, *Marine Chemistry*, doi:10.1016/j.marchem.2011.04.001

Planned Cruise

1. Arabian Sea: November to December 2011, onboard Sagar Kanya
2. Indian ocean: Chennai-Australia-Chennai: January to March 2013, onboard Sagar Kanya

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