

# National Institute of Oceanography

*(Council of Scientific & Industrial Research)*

Dona Paula, Goa, India

[www.nio.org](http://www.nio.org)

*Mission : to continuously improve our understanding of the seas  
around us and to translate this knowledge to benefit all.*



# NIO's Research Projects during 11<sup>th</sup> Five Year Plan (2007-2012)

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### Supra Institutional Project (SIP13)

Science for development of a forecasting system for the waters around India

• **SIP1301**-Understanding coastal upwelling- A System biology approach to delineate web-dynamics from primary to tertiary levels.

PA Lokabharathi loka@nio.org - 6

• **SIP1302**-Eco-biogeography of the estuarine and coastal waters of the southwest coast of India.

N Bahulayan babu@nio.org - 11

• **SIP1303**- Impact on the coastal zone due to natural and anthropogenic pressures.

P Vethamony mony@nio.org - 9

• **SIP1304**-Observations of sea level and surface meteorological data from coastal locations.

RG Prabhu Desai prabhu@nio.org -3

• **SIP1305**-Engineering analysis of coastal processes for marine structures and technology development towards marine activities.

S Mandal smandal@nio.org - 6

• **SIP1306**-Role of the equatorial Indian Ocean processes on the climate variability (EIO-CLIVAR).

S Prasanna Kumar prasanna@nio.org - 5

• **SIP1307**- Observing and modelling the interaction between Indian Ocean, atmosphere and coastal seas (OMICS).

SC Shenoi shenoi@nio.org - 8

• **SIP1308**-Physical and biogeochemical dynamics of estuarine and coastal ecosystems along the east coast of India.

M Dileep Kumar dileep@nio.org - 5

### CSIR Network Projects

• **NWP0014** Atmosphere carbon dioxide sequestration through fertilization of a high-nutrients-low chlorophyll (HNLC) oceanic region with iron.

PV Narvekar narvekar@nio.org / SWA Naqvi (in combination with OLP0016) - 7

• **CMM0008** Acquisition of oceanographic research vessel (ORV) for oceanographic research.

PS Rao psrao@nio.org - 2

• **OLP0001**-Bioprospecting and biotechnology of marine microorganisms.

N Ramaiah ramaiah@nio.org - 6

• **OLP0002**-Habitat ecology, controlled reproduction and conservation of marine organisms with food and medicinal values.

ZA Anzari zakir@nio.org - 2

• **OLP0004**-Evaluation, mechanism and control of biofilm and biofouling.

AC Anil acanil@nio.org - 6

• **OLP0005**-Bioactive metabolites from marine environment.

Lisette D'Souza lisette@nio.org - 5

### Other Laboratory Projects (OLP)

#### Biology & Biotechnology

• **OLP0006**- Environmental impact analyses of mining of marine minerals.

Rahul Sharma rsharma@nio.org - 5

• **OLP0011**- Genesis and occurrence of deep sea mineral deposits (Polymetallic Nodules).

Shyam Prasad shyam@nio.org - 5

• **OLP0012**-Integrated studies to understand the behaviour of the geobiological environs in deciphering gas hydrate occurrence along the Indian continental margins.

T Ramprasad rprasad@nio.org - 8

• **OLP0018**-Deciphering deep crustal structure, tectonic processes and evolution of the Indian continental margins and adjoining ocean basins.

GC Bhattacharya gcb@nio.org - 3

• **OLP0019**-Biomaterials from the continental margins and conditions for their formation.

VPC Rao vpao@nio.org -7

• **OLP0020**-Seamount ferromanganese crusts in northern Indian Ocean: Genesis, paleoceanography, and resource potential.

VK Banakar banakar@nio.org - 1

#### GETMER

• **OLP0003**- Indian climate and phytoplankton variability.

SGP Mathondkar sgpm@nio.org - 4

• **OLP0008**- Application of geological and geophysical methods in marine archaeology and underwater explorations.

KH Vora vora@nio.org - 1

• **OLP0009**- Marine pollution assessment and ecotoxicology.

Classy D'Silva classy@nio.org -6

• **OLP0010**-Paleoceanography of the northern Indian Ocean - an interdisciplinary approach.

R Nigam nigam@nio.org - 9

• **OLP0013**- Autonomous vehicles and instrumentation for oceanography.

Elgar Desa elgar@nio.org -5

• **OLP0014**- Marine environmental studies for sustainable developments in the coastal zone of India.

RV Sarma rvsarma@nio.org - 7

• **OLP0015**- Structure, tectonics and morphology of ECMI and Bengal Fan.

VSN Murty vsnmurty@nio.org - 12

• **OLP0016**- Biogeochemical and ecosystem responses to global climate change and anthropogenic perturbations, and transfers across interfaces in the North Indian Ocean.

SWA Naqvi naqvi@nio.org - 7

• **OLP0021**-Tectonic controls and hydrothermal processes along the slow spreading mid-ocean ridges and the Andaman trench-back arc system, Indian Ocean.

KA Kamesh Raju kamesh@nio.org - 2

• **OLP0022**- Applications of marine geo-scientific methods to fulfill scientific & industrial research objectives.

Anil K Chaubey chaubey@nio.org -4

Project Leader highlighted in blue. The number in red after the project leader's e-mail gives approximate number of scientists working in the project. The posters on this floor give more information about most of the projects. You may identify them by Project Numbers. You can find more about the project by contacting the Project Leader by e-mail or by visiting NIO Website [www.nio.org](http://www.nio.org)

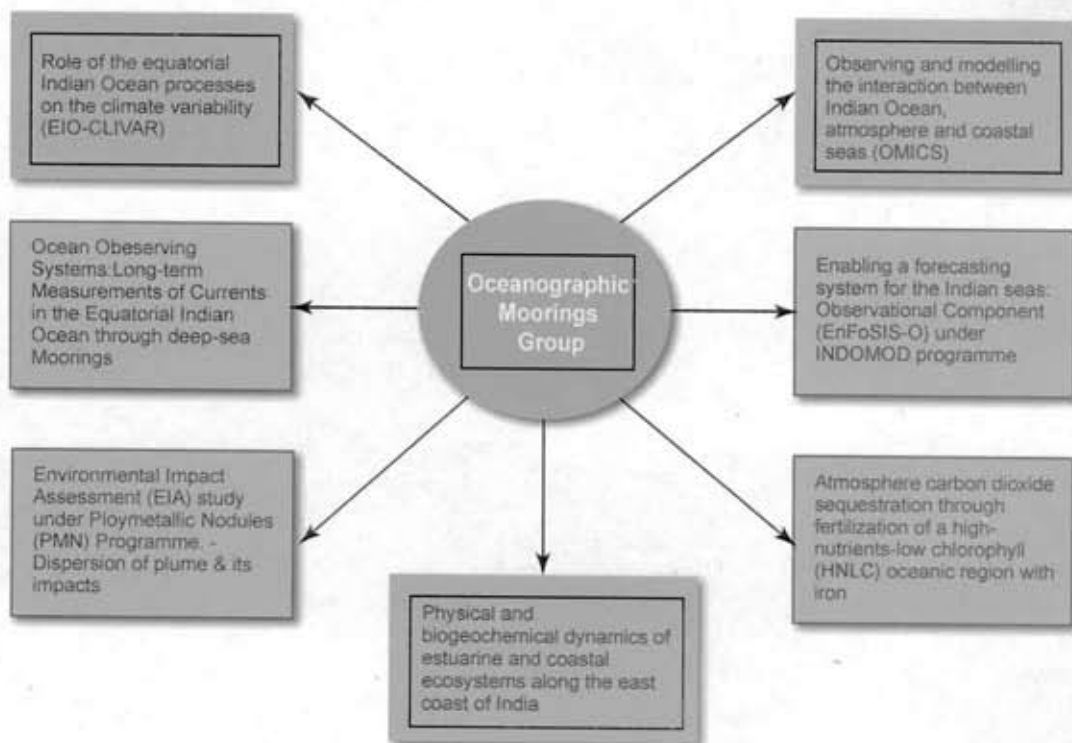
## Mission Statement

Enabling Long Term, In-situ, Time Series, Unmanned Scientific data collection using state of the art technology.

## Core Competency

Planning, Design, Procurement, Inspection, Deployment, Recovery, Service and Maintenance of Oceanographic Moorings.

## Ongoing Projects Being Supported



Time lapse Photography of an ADCP mooring buoy being deployed