

ORV SAGAR KANYA CRUISE REPORT (SK 337)

05 January - 18 January, 2017



SUMMARY OF THE CRUISE REPORT

Chief Scientist: Mr. Dinesh K, INCOIS

Ship Name	ORV Sagar Kanya	
Cruise Start Date (dd/mm/yyyy)	05/01/2017	
Port of Departure	Chennai Port	
Name of Chief Scientist	Dinesh K Scientist, INCOIS, Hyderabad	
Objectives of the cruise	a) Recovery and deployment of RAMA buoys b) CTD observations and water sampling at mooring deployment /retrieval sites	
Details of the Project		
Project Name Research Moored Array for the African- Asian-Australian- Monsoon Analysis and Prediction (RAMA)	Sponsoring Agency Ministry of Earth Sciences, Govt. of India Coordinating Agency INCOIS, Hyderabad	Principal Investigators Dr. M. Ravichandran, INCOIS, Hyderabad
Cruise End date	18/01/2017	

Sagar Kanya Cruise, SK 337
05 January - 18 January, 2017
EXCERPTS FROM THE CRUISE REPORT

1. Objectives:

This cruise was primarily directed at recovering and deploying RAMA (Research Moored Array for African-Asian-Australian Monsoon Analysis and Prediction) buoys in the Bay of Bengal.

2. Cruise track and operations

2.1 Cruise Track

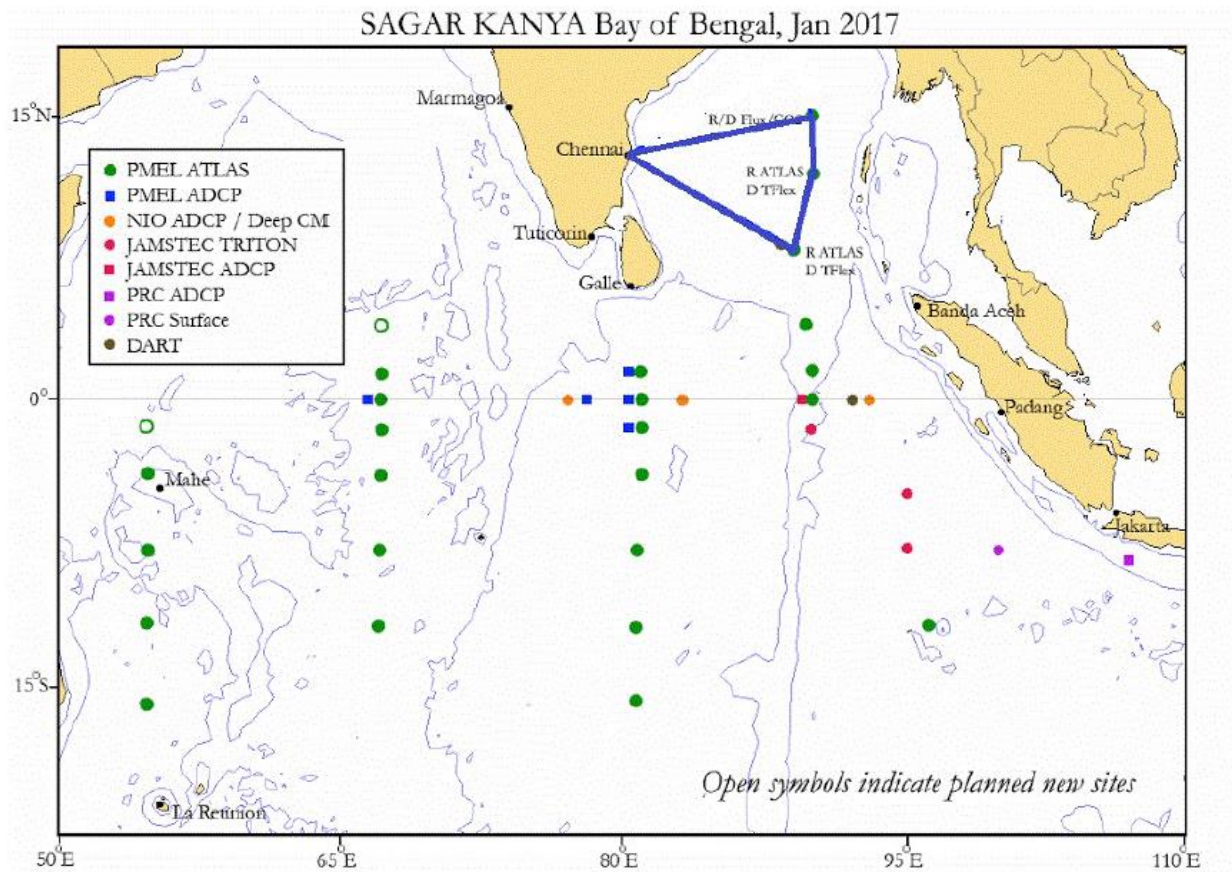


Figure 1: Cruise track of SK 337

2.2 Summary of scientific work carried out

- Three RAMA buoys were retrieved (1 ATLAS pCO₂ and two ATLAS buoys) and three buoys were deployed (one ATLAS pCO₂ and two TFLEX buoys).
- CTD profiles were taken at RAMA buoy locations.
- Water sampling at the buoy locations for validating the conductivity of the CTD system.

2.2.1 Details of mooring operations

No.	Date	Operation
1	10/01/2017	15N_90E ATLAS pCO ₂ recovery
2	10/01/2017	15N_90E ATLAS pCO ₂ deployment
3	12/01/2017	12N_89E ATLAS recovery
4	12/01/2017	12N_89ETFLEX deployment
5	14/01/2017	08N_89E ATLAS recovery
6	14/01/2017	08N_89E TFLEX deployment

2.2.2 CTD Operations

No.	Date	Start Time (IST)	Co-ordinates	Depth, m
1	10/01/2017	15:15	14° 57.746' N: 88° 55.42' E	Cast depth 2700m; water sampling
2	12/01/2017	10:30	12° 01.70'N: 88° 47.00' E	Cast depth 3100m; water sampling
3	14/01/2017	10:45	07° 59.50'N: 88° 58.20' E	Cast depth 3500m; water sampling

3 Participants

No.	Name	Designation	Institute	Nationality
1	Dinesh Kothandaraman	Chief Scientist	INCOIS	India
2	David Keith Zimmerman	Scientist	NOAA/PMEL	USA
3	Patrick Lawrence Berk	Scientist	NOAA/PMEL	USA
4	Chandru Elangovan	Deploy. Assistant	NIOT	India
5	Jagadish Gunasekaran	Deploy. Assistant	NIOT	India
6	Ravindran Mariappan	Deploy. Assistant	NIOT	India
7	Sreedhar Govindaraj	Deploy. Assistant	NIOT	India
8	Rahul Mavi	Shipboard Asstt.	NCAOR	India
9	Palaniswamy Boopathy	Senior Manager	NORINCO	India
10	Rajak Mohamed Ismail	Asstt. Manager	NORINCO	India
11	Ganapathy Mahadevan	Service Engr.	NORINCO	India
12	Ranganathan Vinothkumar	Service Engr.	NORINCO	India
13	Kandavel Tharanitharan	Service Engr.	NORINCO	India

