

**ORV SAGAR KANYA
CRUISE REPORT (SK 327)**

13 February - 14 March, 2016



SUMMARY OF THE CRUISE REPORT

Chief Scientist: Mr. Dinesh K, INCOIS

Ship Name	ORV Sagar Kanya	
Cruise Start Date (dd/mm/yyyy)	13/02/2016	
Port of Departure	Chennai Port	
Name of Chief Scientist	Dinesh K Scientist, INCOIS, Hyderabad	
Objectives of the cruise	a) Recovery and deployment of RAMA, OMI and Tsunami buoys b) CTD observations 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	14/03/2016	

Sagar Kanya Cruise, SK 327
13 February - 14 March, 2016
EXCERPTS FROM THE CRUISE REPORT BY THE CHIEF SCIENTIST

1. Objectives:

This cruise was primarily directed at recovering and deploying RAMA (Research Moored Array for African-Asian-Australian Monsoon Analysis and Prediction) buoys and NIOT-OMNI and Tsunami buoys.

2. Cruise track and operations

2.1 Cruise Track

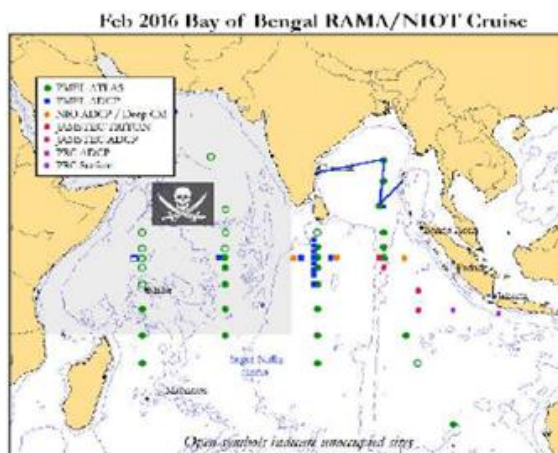


Figure 1: Cruise track of SK 327

2.2 Summary of scientific work carried out

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

2.2.1 Details of mooring operations

No.	Date	Operation
1	05/03/2016	15N_89E ATLAS pCO ₂ recovery
2	06/03/2016	15N_89E ATLAS pCO ₂ deployment
3	09/03/2016	12N_89E ATLAS recovery
4	09/03/2016	12N_89E ATLAS deployment

5	11/03/2016	08N_89E ATLAS recovery
6	11/03/2016	08N_89E ATLAS deployment

2.2.2 CTD Operations

No.	Date	Start Time (IST)	Co-ordinates	Depth, m
1	05/03/2016	19:35	14° 58.71' N: 89° 56.00' E	Cast depth 1000m; water sampling
2	09/03/2016	10:12	12° 04.29'N: 88° 48.42' E	Cast depth 1000m; water sampling
3	11/03/2016	10:05	07° 59.20'N: 88° 58.71' E	Cast depth 1000m; water sampling
4	26/02/2016	17:01	13° 59.27'N: 86° 59.01'E	Cast depth 2000m
5	27/02/2016	14:50	14° 05.20'N: 87° 01.16'E	Cast depth 1000m
6	29/02/2016	10:59	16° 30.08'N: 87° 55.83'E	Cast depth 1000m
7	29/02/2016	18:32	16° 32.64'N: 88° 01.35'E	Cast depth 1000m
8	04/03/2016	10:14	17° 50.74'N: 89° 45.56'E	Cast depth 1000m
9	03/03/2016	14:10	17° 49.50'N: 89° 40.03'E	Cast depth 1000m
10	02/03/2016	11:05	18° 08.60'N: 89° 40.10'E	Cast depth 1000m

3 Participants

No.	Name	Designation	Institute	Nationality
1	Dinesh Kothandaraman	Chief Scientist	INCOIS	India
2	Muruges Pothikasalam	Dy. Chief Scientist	NIOT	India
3	David Keith Zimmerman	Scientist	NOAA/PMEL	USA
4	Curran Warrack Fey	Scientist	NOAA/PMEL	USA
5	Anand Kishor	Scientist	NIOT	India
6	Biswajit Haldar	Scientist	NIOT	India
7	Gowthaman Duraipandian	Scientist	NIOT	India
8	Elango Sivalingam	Scientist	NIOT	India
9	Gnanadhas Thasian	Scientist	NIOT	India
10	Kalaivanan Kochi Krishnan Kala	Scientist	NIOT	India
11	Athiaman Mani	Project Technician	NIOT	India
12	Harikrishnan Kinattinkara Veettil	Field Engineer	NIOT	India
13	Saravanan Jayavelu	Field Engineer	NIOT	India
14	Susairaj ANtony	Technician	NIOT	India
15	Suresh Bhuvaneshwaran	Technician	NIOT	India

16	Rajapart Ramalingam	Deployment Assistant	NIOT	India
17	Emayavaramban Selvaraj	Deployment Assistant	NIOT	India
18	Udayakumar Raji	Deployment Assistant	NIOT	India
19	Kirubakaran Narayanasamy	Deployment Assistant	NIOT	India
20	Thivakar Sankar	Deployment Assistant	NIOT	India
21	Subramanian Natesan	Deployment Assistant	NIOT	India