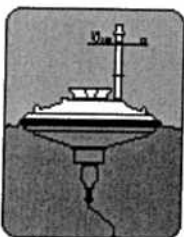


SK-202

CR. REPORT.

CRUISE REPORT

CRUISE NO : SK-202
LOCATION : ARABIAN SEA.
PERIOD : 3RD APR 2004 TO 15TH APR 2004.



National Data Buoy Programme
National Institute of Ocean Technology
(Department of Ocean Development, Govt. of India)
NIOT Campus, CHENNAI - 601 302

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1. SUMMARY OF THE ACTIVITY

- A. **Cruise Details** : To deploy data buoys at new locations OB3, MB1 and OB1.
And do the regular maintenance for data buoys at SW4,DS7, DS2,DS1,SW2 and SW3 in existing locations.
- B. **Period** : 29-03 –2004 to 17-04-2004.
- C. **Ship used** : ORV- SAGARKANYA.

2. LIST OF NDBP PARTICIPANTS

1. V. GOWATHAMAN.
2. P. SELAVAKUMAR.
3. M. RAJAVEL.
4. M. SARAVANAN.
5. M. ARUL MUTHIAH.
6. G. VENGATESAN.
7. K. RAMA SUNDAR
8. M. ATHIAMAN.
9. P. RAMESH

3. DIARY OF EVENTS

Date	Time	Event
29-03-2004	3.30 PM	Buoy and its accessories loading started into 3 Nos. of trailers and a truck.
	10.15PM	Loading completed.
30-03-2004	11.00AM	Team left from Chennai by Train.
31-03-2004	2.30 PM	Team reached at Hotel, Karwar.
	5.00 PM	Trucks from Goa and Chennai were identified at Karwar port gate.
01-04-2004		Team continued staying at Hotel, Karwar as Trailers from Chennai not reaching Karwar.
02-04-2004	10.30 AM	Port and Custom officials cleared for personnel and Material.
	3.30 PM	Team boarded vessel.
	7.00 PM	Material unloading from trailers, truck and loading into ship started.
03-04-2004	1.30 AM	Loading completed.
	9.30 AM	Requested Chief engineer to repair Atlas crane and to be checked with 4 Tons of weights.
	6.00 PM	The buoy, which was retrieved from SW3, cleaned and made ready for deployment.
	7.00PM	Sailing started towards SW4, Mangalore Port.
	8.45 PM	Field station and Mini-M established at lab, ORV SAGAR KANYA.
	9.30 PM	Spar buoy was made ready for deployment at SW4 locations.
	11.30 PM	Spar buoy testing completed.
	6.30 AM	Data quality and transmission confirmed from NIOT.

04-04-2004	10.30AM	Buoy deployed at new location with new mooring. Buoy sunk into water and also went inside the ship. And came back after 45 Minutes. No damage was noticed when buoy came up.
	11.30 AM	Data transmission confirmed from SS.
	3.30 PM	Existing discuss buoy retrieved.
	3.45 PM	Ship sailing started towards DS7 location.
	4.00 PM	Retrieved buoy from SW4 cleaning started.
	8.30 PM	Buoy with Thermister string –120 Mts. started testing for DS7 locations.
	05-04-2004	9.30 AM
10.00 AM		DS7 testing buoy shows erratic values for Thermister string. Then configuration files was modified and loaded into DS7 buoy. 11.30 AM data downloaded from testing DS7 buoy and it was good.
8.30 PM		Buoy with Falmouth CT sensor testing started for OB3 and MB1 locations.
06-04-2004	7.00 AM	On reaching DS7 location, DS7 buoy was sighted without mast ring.
	9.30 AM	Deployment sequence started.
	10.15 AM	On retrieval of old buoy it was found that Thermister string damaged.
	10.45 AM	Tested buoy swapped with existing mooring and 11.30 AM data transmission confirmed SS.
	11.50 AM	Ship started towards DS2 location.
	12.00 PM	Buoy, which retrieved from DS7 cleaning started.
	5.00 PM	Mast assembly and hood fixing done for DS2 buoy.
	8.30 PM	Lid locks were adjusted for DS2 buoy till 11.45 PM.
07-04-2004	7.00 AM	Reached at DS2 location.
	7.15 AM	Existing buoy retrieved and tested FRP buoy swapped with existing mooring.
	8.30 AM	Data transmission confirmed from SS. Started sailing towards OB3.
	10.30 AM	Mast assembly and keel weight fixed with OB3 buoy.
	11.30 AM	Buoy, which retrieved from DS2 was cleaned.
	7.30 PM	Buoy with climate sensor testing started for DS1 location.
08-04-02004	6.00 AM	Reached at OB3 location.
	6.30 AM	Deployment sequence started like mooring rope connected with mooring point.
	7.30 AM	Buoy dropped into water.
	9.35 AM	Anchor dropped. Started sailing towards DS1 location.
	10.30 AM	Due to Humidity sensor failure, the same was removed from the buoy system. PD-NDBP also advised to remove the sensor from the buoy system as it doesn't affect the other sensor in the module.

	7.30 PM	Field team was informed that OB3 buoy is suspected to be drifting. Then immediately ship was asked to reduce the speed.
	8.00 PM	Buoy with CT sensor testing started for OB1 location.
	11.45 PM	After 11.30 PM data from OB3 buoy, it is confirmed that OB3 buoy at its position. Ship was asked to proceed towards DS1 location.
09-04-2004	3.15 PM	Ship reached at DS 1 location.
	3.45 PM	Buoy dropped into water.
	5.50PM	Anchor dropped at 15 Deg 30.221 ' N and 69 Deg 16.571' E.
	6.00 PM	Ship starts towards DS1 old location.
	7.00 PM	Buoy sighted without sensor arm. As we could able to see buoy very clearly, retrieval sequence started.
	7.50 PM	DS1 buoy retrieved successfully.
	8.00 PM	Drifter buoy (43743) deployed at 15 Deg 34' N and 69 Deg 11 'E.
	8.10 PM	Sailing started towards MB1 position.
10-04-2004	10.00AM	Buoy with conductivity and Temperature sensor testing started for SW2 location.
	5.30 PM	UCMs' which were retrieved from SW4, DS7, DS2 and DS1 had been checked. Among 4 current meters, two of them made ready for interface with buoy.
	9.00 PM	Buoy with current meter testing started for SW3 location.
11-04-2004	6.30 AM	Reached MB1 position.
	7.15AM	Deployment sequence started.
	9.00 AM	MB1 buoy deployment completed.
	9.10 AM	Sailing started towards OB1 location.
	10.30 AM	OB1 and SW2 buoy data downloaded. And they are good.
	11.30 AM	Field team was informed that SW4 buoy stopped transmission. And they were asked to test one Discuss buoy and send it to Mangalore for SW4.
12-04-2004	7.00 AM	On reaching OB1 location, we could see some fishing boats in one direction.
	8.00 AM	Fishing activities at OB1 location were informed to PD-NDBP who advised to skip the OB1 and proceed to SW2 location.
	10.30 AM	OB1 buoy's configuration files was changed. And it converted as SW2 buoy.
13-04-2004	10.00AM	Data from SW2 and SW3 buoy downloaded and they are good.
	5.00 PM	Buoy with current meter testing started for SW4.
14-04-2004	6.45 AM	Reached at SW2 location.
	7.25 AM	Buoy deployed with new mooring.
	7.45 AM	Sailing started towards SW3 location.
15-04-2004	6.30 AM	Reached at Mormugao Port.
	7.20AM	Buoy deployed with new mooring at depth of 13Mts.
	8.00 AM	Sailing towards Karwar port.
	11.45 AM	Ship reached at out anchorage of Karwar port.
	4.30 PM	Ship was berthed at Karwar Port.

	6.00 PM	Material loaded into trailer to NIOT, Chennai.
	9.30PM	Team stayed at Hotel, Karwar.
16-04-2004	10.30 AM	Team left from Karwar by taxi to Mangalore.
	7.30PM	Remaining material loaded into trailer to NIOT, Chennai. One Discuss buoy with tested electronics sent with truck to Mangalore for SW4 operation.
17-04-0204	4.00 PM	Team reached at Chennai central.

4. APPENDIX

- CRUISE TRACK WITH DEPLOYMENT LOCATIONS.

NDBP Buoy Deployment Cruise in Arabian Sea from 3rd - 15th April 2004 by O.R.V. Sagar Kanya (SK-202)

