

**Brief report on the scientific activity carried out during
204th cruise of ORV Sagar Kanya**

Background information:

National Institute of Ocean Technology, a technical arm of Department of Ocean Development, Government of India, is implementing projects on national importance in the area of ocean technology.

In this cruise, it was planned to deploy 9 ARGO float in Bay of Bengal and Indian Ocean region. Also decided to collect the CTD data in the deployment locations. Sea training to university students, collecting soil samples for their studies.

Details of the deployment of ARGO float were given in Table:


Sl: No	ARGOS ID		LAT/LON		MAK E/ S. No	Sensor S. No	Area	Actual deployment time and dat	Actual deployment location
	Dec	Hex							
1	28270	B9B92	6.00°N	86.00°E	1304	1375	Bay of Bengal	8:41pm 19-05-04	86°00'. 25E 05°59'. 39N
2	28269	B9B67	4.00°N	88.00°E	1303	1374	Bay of Bengal	3:25pm 20-05-04	87°59'. 75E 04°00'. 34N
3	28707	C08C3	2.00°N	88.00°E	1301	1357	Bay of Bengal	5:40a.m. 21:05:04	88°00'. 63E 2°00'. 45N
4	28706	C0890	0.00°N	88.00°E	1300	1351	Indian Ocean	7:15pm 21-05-04	88°00'. 20E 00°00'. 18N
5	28704	C0836	2.00°S	89.00°E	1298	1249	Indian Ocean	10:02a.m. 22-05-04	89°00'. 20E 01°59'. 42S
6	28705	C0865	2.00°S	92.00°E	1299	1350	Indian Ocean	3:50a.m. 23:05:04	91°59'. 89E 01°59'. 85S
7	28268	B9B34	2.00°N	90.00°E	1302	1358	Bay of Bengal	9:05a.m. 24:05:04	90°00'. 37E 01°59'. 63N
8	28271	B9BC1	6.00°N	89.00°E	1306	1376	Bay of Bengal	11:05a.m. 25-05-04	89°00'. 61E 05°59'. 47N
9	28272	B9C3A	8.00°N	87.00°E	1307	1377	Bay of Bengal	7:20a.m. 26-05-04	87°00'. 87E 08°00'. 26N

Log of events:

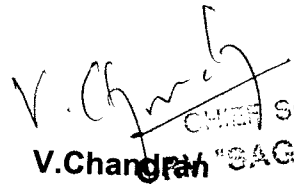
Date & Time	Activities carried out
16/05/04 6:00 PM	Vessel sailed out from Tuticorin
19/05/04 08:41PM	Reached location Lat:05°59'39N,Long: 86°00' 25E. First ARGO float was deployed.
20/05/04 03:25PM	Reached location Lat:04°00'34N,Long: 87°59' 75E. 2 nd ARGO float was deployed.
21/05/04 05:40 PM	Reached location Lat:02°00'45N,Long: 88°00' 63E. 3 rd ARGO float was deployed.
21/05/04 07:15 PM	Reached location Lat:00°00'18 N, Long: 88°00' 20E. 4 th ARGO float was deployed.
22/05/04 10:02 AM	Reached location Lat: 01°59'. 42S,Long: 89°00' 20E. 5 th ARGO float was deployed.
23/05/04 3:50 AM	Reached location Lat: 01°59'. 85S,Long: 91°59' 89E. 6 th ARGO float was deployed
24/05/04 9:05 AM	Reached location Lat: 01°59'. 63N,Long: 90°00' 37E. 7 th ARGO float was deployed
25/05/04 11:05 AM	Reached location Lat: 05°59'. 47N,Long: 89°00' 61E. 8 th ARGO float was deployed
26/05/04 7:20AM	Reached location Lat: 08°00'. 26N,Long: 87°00' 87E. 9 th ARGO float was deployed
28/05/04 12:00 AM to 3:00PM	Operated corer at Lat: 11°45'. 45N,Long: 81°31' 31E, Depth: 3528. Two metres sample obtained.

28/05/04 11.20 PM to 00.45AM	Operated corer at Lat: 11°29'94 N, Long: 80°27' 50 E, Depth : 2067. 5.3 metres sample obtained.
29/05/04 05.00 AM	Operated corer at Lat: 11°27'23 N, Long: 79°58' 35 E, Depth : 176. 5 metres sample obtained.
29/05/04 12.30PM	Operated corer two times at Lat: 11°56'6 N, Long: 80°07' 9 E, Depth : 42 m. No sample was collected in the both operations.
29/05/04 03.10PM	Operated grab at Lat: 12°37'20 N, Long: 80°20'129 E, Depth: 43 m. In the first two operations grab didn't closed. Sample was collected in third trail.
29/05/04 5:20PM	Operated grab at Lat: 12°43'96 N, Long: 80°21' 95 E , Depth : 48 m. Sample was collected.
29/05/04 10.00 PM	Reached Chennai port

CTD operation was cancelled due to fresh water shortage, as the RO plant was not working.


T.Ashok kumar

Dy. Chief Scientist
SK-204


V.Chandran
CHIEF SCIENTIST
"SAGAR KANYA"

Chief Scientist
SK-204