



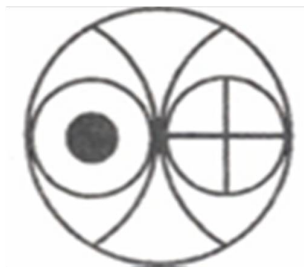
Cruise Report

ORV Sagar Kanya

Cruise # 338

From: Chennai, 28th January, 2017

To: Goa, 3rd March, 2017



Chief Scientist: Mr. Venkatesh Chinni
Geosciences Division,
Physical research Laboratory, Ahmedabad

Itinerary of the SK-338 cruise program

Name of vessel	ORV Sagar Kanya
Cruise No.	338
Port of embarkation	Chennai, India
Date of embarkation	27 January, 2017
Port of disembarkation	Goa, India
Date of disembarkation	4 March, 2017
No. of scientist participated	21
Region	Bay of Bengal, Arabian Sea, Andaman Sea and Indian Ocean
Operations	Clean CTD, McLANE, IDRONAUT CTD, Peterson Grab, Gravity coring
Sample type	Seawater, and sediment
Parameters studied	Trace Elements and their Isotopes, Particulate matter, C-14, DO, pH, Alkalinity, Neodymium and Hafnium isotopes, Nitrate, Nitrite, Phosphate, Silicate, Ammonia, DOC, DIC, POC, HPLC pigments, Primary Productivity, Aerosol composition and chemical characterisation.
Chief Scientist	Mr. Venkatesh Chinni

Objectives:

To understand the various biogeochemical processes controlling the distributions of various trace elements and their isotopes (TEIs) along the GEOTRACES Section GI-10 in the Bay of Bengal, Andaman Sea, Indian Ocean and Arabian Sea.

Sampling details

The scientific operations carried out at the stations across a range of contrasting regions in the Bay of Bengal, Andaman Sea, Arabian Sea and the Indian Ocean during the cruise SK- 338 are described below:

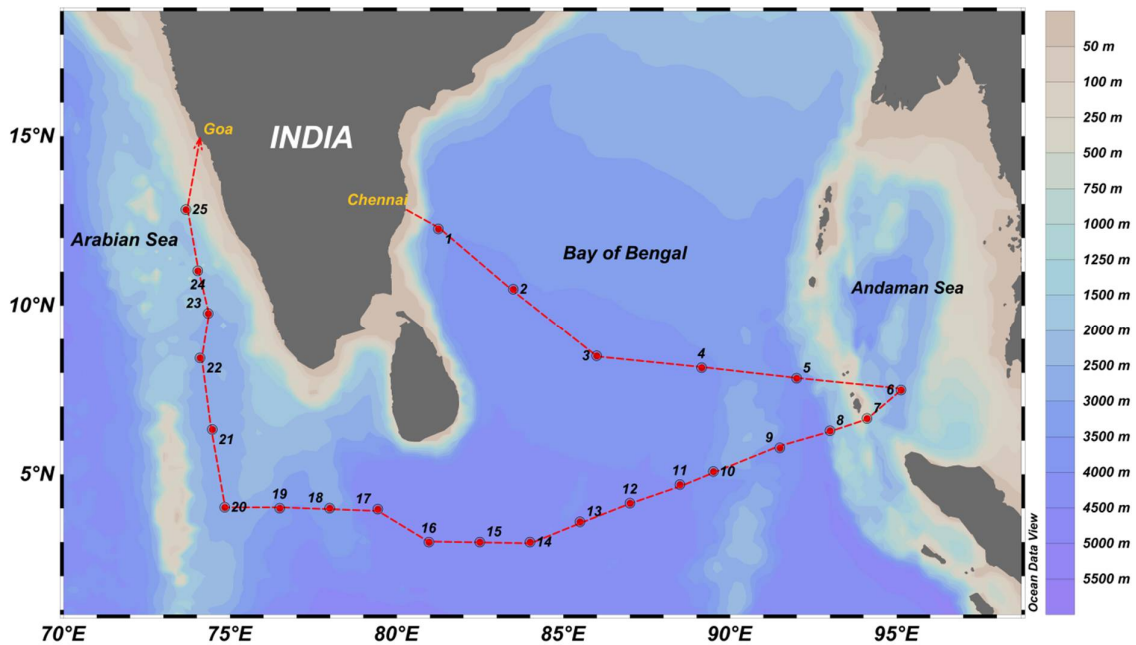


Figure: Cruise track for SK – 338

Date	Latitude	Longitude	Operation
29/01/2017:10:00:00	12° 15.987'	81° 15.049'	Clean CTD
31/01/2017: 10:35:00	10° 29'	83°29.99	Clean CTD; IDRONAUT CTD
01/02/2017:20:15:00	08° 30.004'	86°	Clean CTD; IDRONAUT CTD; McLANE water pumping
03/02/2017:23:30:00	08° 08.884'	89° 08.912'	Clean CTD; IDRONAUT CTD ; gravity coring
05/02/2017: 11:00:00	07°50.018'	91° 59.87'	Clean CTD; IDRONAUT CTD ; McLANE water pump, Peterson grab
07/02/2017: 16:00:00	7° 29.381'	95°07.895'	Clean CTD; IDRONAUT CTD ; gravity coring
08/02/2017: 13:30:00	6° 38.915'	94°06.798'	Clean CTD; IDRONAUT CTD ; gravity coring
09/02/2017: 06:00:00	06°16.997'	92° 59.98'	Clean CTD; IDRONAUT CTD

09/02/2017: 23:30:00	05° 46.9126′	091° 29.795′	Clean CTD; IDRONAUT CTD ; gravity coring
11/02/2017: 05:00:00	05° 05.017′	089° 29.959′	Clean CTD; IDRONAUT CTD ; McLANE water pump
12/02/2017: 13:10:00	04° 41.981′	88° 30.02′	Clean CTD; IDRONAUT CTD
13/02/2017: 10:30:00	04° 08.978′	86° 59.907′	Clean CTD; gravity coring
14/02/2017: 09:40:00	3° 36.066′	85° 29.908′	Clean CTD; IDRONAUT CTD
15/02/2017: 11:30:00	03° 00.048′	83° 59.952′ E	Clean CTD
16/02/2017: 09:20:00	3° 00.005′	82° 29.63′	No Sampling
17/02/2017: 06:00:00	2° 59.867′	80° 58.118′	Gravity coring
18/02/2017: 09:30:00	3° 58.493′	79° 26.071′	Clean CTD; IDRONAUT CTD; gravity coring
19/02/2017: 18:00:00	3° 59.985′	77° 59.607′	Clean CTD
20/02/2017: 11:30:00	04° 00.029′	76° 29.612′	Clean CTD
25/02/2017: 09:10:00	04° 01.633′	74° 50.601′	Clean CTD; IDRONAUT CTD; gravity coring
26/02/2017: 17:10:00	06° 19.332′	74° 28.031′	Clean CTD; IDRONAUT CTD
27/02/2017: 17:00:00	08° 26.183′	74° 06.108′	Clean CTD; IDRONAUT CTD
28/02/2017: 16:00:00	09° 45.908′	74° 20.671′	Gravity coring
01/03/2017: 09:00:00	11° 01.841′	74° 01.94′	Clean CTD; IDRONAUT CTD ; McLANE water pump; gravity coring
02/03/2017: 13:55:00	12° 56.411′	73° 27.507′	McLANE water pump; gravity coring
04/03/2017			Reached Goa port: end of cruise

Participants

No.	Name	Affiliation
1	Venkatesh Chinni, Chief Scientist	PRL, Ahmedabad, India
2	Abhishek Tiwari, Dy. Chief Scientist	PRL, Ahmedabad, India
3	Damodara Rao Karri	PRL, Ahmedabad, India
4	Mahesh Gaddam	PRL, Ahmedabad, India
5	Priyanka Jha	PRL, Ahmedabad, India
6	Harsh Raj	PRL, Ahmedabad, India
7	Namandeep Singh	PRL, Ahmedabad, India
8	Romi Nambiar	PRL, Ahmedabad, India
9	Sannjukta Dhar	PRL, Ahmedabad, India
10	Dipika Jain	PRL, Ahmedabad, India
11	Sampath Kumar G	NIO, Regional Centre, Vishakhapatnam
12	Navita Buddiga	NIO, Regional Centre, Vishakhapatnam
13	Narasimha Rao D	NIO, Regional Centre, Vishakhapatnam
14	Durga Prasad M	NIO, Regional Centre, Vishakhapatnam
15	Arif Ahmed	Mangalore University, Mangalore, India
16	Vishwanathan	M/s NORINCO Pvt. Ltd.
17	V. C. Sarathchandran	M/s NORINCO Pvt. Ltd.
18	Bijesh	M/s NORINCO Pvt. Ltd.
19	Ramesh R	M/s NORINCO Pvt. Ltd.
20	Ramesh M	M/s NORINCO Pvt. Ltd.
21	Pawan Shirodkar	NCAOR, Goa, India