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|  | <u>National Institute of Oceanography</u> Dona Paula, Goa – 403 004 |  |
| | <u>ORV SAGAR KANYA</u> | |

Cruise Report: SK-22B

From 21/03/1986 – To 02/04/1986

Note: The original report of this cruise, which was submitted after the cruise could not be located at the time of creation of the cruise reports e-data base during 2007. Hence, this present cruise report was reconstructed (on 05.11.2007) based on whatever scattered documents still available with the chief scientist.

A) Participants:

- 1). Mr. G. C. Bhattacharya Chief Scientist
- 2). Mr. V. Subrahmanyam
- 3). Mr. B. Janardan Reddy

B) Itinerary of the vessel:

Departure: Cochin Harbour 20/03/1986:
Arrival : Murmugao Harbour 02/04/1986

C) Objective of the survey:

Collection of underway geophysical (magnetic, gravity and bathymetric) data along selected regional transects across the western continental margin of India.

D) Data collection:

Underway geophysical (magnetic, gravity and bathymetric) data were collected during the cruise using following equipments:

Navigation: INS(SERIES 200), SATNAV (MX 1107)
Bathymetry : NARROW BEAM ECHOSOUNDER-HONEYWELL ELAC
Magnetics: PROTON PRECESSION MAG-GEOMETRICS G801/3
Gravity : SEA GRAVITY METER - KSS 30 BODENSEEWERK

Metadata information of the acquired data is given in annexure I. After necessary processing all these data were submitted to the data center.

FORMAT FOR SUBMISSION OF METADATA/INFORMATION FOR UNDERWAY DATA ACQUISITION DURING CRUISE

(To be provided to the data center by the Chief Scientist on completion of the cruise)

Name of ship / boat: ORV Sagar Kanya

Cruise No: 22B

Cruise Period: From 20/03/1986 to 02/04/1986

Name of Chief Scientist: Mr. G. C. Bhattacharya

Area of Operation: Western continental margin of India

| LINE ID | LINE Direction N to S or E to W | Beginning of line | | | | End of line | | | | Type of underway data acquired | Person responsible for data * |
|---------|---------------------------------------|-------------------|------------|----------|-----------|-------------|------------|----------|-----------|--------------------------------|-------------------------------|
| | | Date (GMT) | Time (GMT) | Lat. | Long. | Date (GMT) | Time (GMT) | Lat. | Long. | | |
| SK22-A | W-E | 21.03.86 | 16:40 | 11.09816 | 74.781317 | 21.03.86 | 21:49 | 11.36780 | 75.439167 | M | G.C.Bhattacharya |
| SK22-02 | E-W | 22.03.86 | 01:10 | 11.25384 | 75.622883 | 23.03.86 | 17:10 | 09.18225 | 70.786763 | GMB | G.C.Bhattacharya |
| SK22-03 | W-E | 24.03.86 | 04:20 | 10.66565 | 70.377753 | 25.03.86 | 15:30 | 12.35024 | 74.745323 | GMB | G.C.Bhattacharya |
| SK22-D | E-W | 25.03.86 | 16:25 | 12.37733 | 74.701816 | 25.03.86 | 22:29 | 12.43585 | 73.880667 | M | G.C.Bhattacharya |
| SK22-06 | E-W | 27.03.86 | 18:25 | 17.25492 | 71.971913 | 29.03.86 | 10:05 | 15.54603 | 66.131163 | GMB | G.C.Bhattacharya |
| SK22-07 | S-N | 29.03.86 | 10:36 | 15.58972 | 66.106003 | 29.03.86 | 21:25 | 17.45858 | 66.016663 | GMB | G.C.Bhattacharya |
| SK22-08 | W-E | 29.03.86 | 21:30 | 17.46494 | 66.030723 | 31.03.86 | 15:20 | 18.98447 | 71.902833 | GMB | G.C.Bhattacharya |

(G: Gravity, M: Magnetic; B: Bathymetry)

- 1 Note: Please indicate separately for various data types if different persons are responsible for different data
- 2 Note: Attach extra sheets as required

Signature of Chief Scientist.

Signatures of all persons responsible for data: