

MEMBER COUNTRY:		INDIA				
National Report to SCAR for year:		2012-13				
Activity	Contact Name	Address	Telephone	Fax	Email	web site
National SCAR Committee						
	Shri. Rasik Ravindra, Chairman	Ministry of Earth Sciences, Mahasagar Bhavan, Block 12, CGO Complex, Lodhi Road, New Delhi - 110 003	91-9999518129		rasikravindra@gmail.com	
	Dr. N C Mehrotra	Director, Birbal Sahni Institute of Paleobotany, Lucknow-226007 ,India	91-522-2740470	91-522-2740485	mehrotrabsip@rediffmail.com	
	Dr. Anil Joshi	Director, Polar Studies Division, Geological Survey of India, Faridabad - 121001, India	91-129-2417335	91-129-2417335	joanil@rediffmail.com	
	R K Sharma	Advisor, Ministry of Earth Sciences, Prithvi Bhavan, Lodhi Road, New Delhi	91-11-24669516	91-11-24669778	rks@nic.in; krram@yahoo.com	
	Dr. Rahul Mohan, Member Secretary	Programme Director, National Centre for Antarctic & Ocean Research, Headland Sada, Goa - Pin-403804, INDIA.	91-832-2525531	91-832-2520877	rahulmohangupta@gmail.com	
SCAR Delegates						
1) Delegate	Dr. Shailesh Nayak	Ministry of Earth Sciences, Mahasagar Bhavan, Block 12, CGO Complex, Lodhi Road, New Delhi - 110 003	91-11-24669506	91-11-24669778		
2) Alternate Delegate	Dr. S. Rajan	Director, National Centre for Antarctic & Ocean Research, Headland Sada, Goa - Pin-403804, INDIA.	91-832-2525501/ 2520876	91-832-2520877	srajan@ncaor.gov.in;	www.ncaor.gov.in
Standing Scientific Groups						
Life Sciences						
1)	Dr. B. Ingole	National Institute of Oceanography, Dona Paula, Goa-403 004	91-832-2450242	832245060	baban@nio.org	
2)						
3)						
Geosciences						
1)	Dr. S. Mukherji	Geological Survey of India, NH5, NIT, Faridabad - 121 001;	91-9871824949		mukherjeesharad@rediffmail.com	
	Dr. S. Rajan	National Centre for Antarctic & Ocean Research, Headland Sada, Goa - Pin-403804, INDIA.	0832 2525511	0832 2520871	rajan@ncaor.org	
2)	Dr. N. C. Pant	Centre for Advanced Study, Department of Geology, Delhi University, Delhi-110007	91-9953781350		pantnc@rediffmail.com	
3)	Dr V M Tiwari	National Geophysical Research Institute	91-40 2343 2494	91 40 2343 4651	vmtiwari@ngri.res.in	
4)		uppal Road Hyderabad 500 003				
Physical Sciences						
1)	Dr. S. L. Jain	Emeritus Scientist, National Physical Laboratory, Dr.K.S.krishnan Marg, New Delhi-110 012	91-11-45608584	91-11-45609310	sljain@mail.nplindia.ernet.in	

2)	Dr C G Deshpande	Indian Institute of Tropical Meteorology Dr Homi Bhabha Road Dr Homi Bhabha Road Pashan	91 20 2589 3600	+91 20 2665 5961	cgdesh2004@yahoo.com
3)	Dr. Shailendra S	National Centre for Antarctic & Ocean Research, Headland Sada, Goa - Pin- 403804, INDIA.	91-832-2525521	91-832 2520871	shailendra.saini@gmail.com
Scientific Research Program					
1)	ACE				
2)					
3)					
4)	AGCS				
1)					
2)					
3)					
4)	EBA				
1)					
2)					
3)					
4)	ICESTAR				
1)					
2)					
3)					
4)	SALE				
1)					
2)					
3)					
4)					

Activity	Contact Name	Address	Telephone	Fax	Email	web site
ACTION GROUPS						
1)Bipolar Action Group 2) 3) 4)	Dr.Thamban Meloth	Program Director (Lab.),National Centre for Antarctic & Ocean Research, Headland Sada, Goa - Pin-403804, INDIA.	0832-2525622	0832 2520877	meloth@ncaor.gov.in	
insert others as needed						
EXPERT GROUPS						
1) 2) 3) 4)						
insert others as needed						
SCADM						
1) 2)	Shri Saktivel Samy	Head, ICTD, National Centre for Antarctic & Ocean Research Headland Sada, Goa - Pin-403804, INDIA.	91-832-2525515	91-832-2520877	vssamy@ncaor.gov.in	
NATIONAL ANTARCTIC DATA CENTRE						
National Antarctic Data Centre of India is under construction						
SCAR DATABASE						
insert name of database for which your country has responsibility						

A BRIEF SUMMARY OF SCIENTIFIC HIGHLIGHTS:

22 projects from 15 different premier institutes / universities of India were taken up during the said period of 2012-13. In addition one scientific personnel participated, to carry out filming and photography. Brief highlights have been provided under subheads:

Atmospheric & Meteorology

SASE (Maitri)-Long term: has installed two Automatic Weather Stations (AWS) in Antarctica for long term monitoring of various meteorological parameters and estimation of surface energy and mass balance.

IMD (Maitri)-Long term: Regular weather data collection of the Meteorological parameters such as

- Atmospheric Turbidity based on sunshine hours.
- Continues recording of AWS data of Radiation Data,

AWS data and Atmospheric Turbidity based on Sunshine hours done by the IMD team.

IIG (Maitri)-Long term: Magnetic data from Maitri and Larsemann Hills station supplemented by global magnetic observatory network and satellite measurements was taken. Investigations on geomagnetic pulsation was carried out using fine resolution induction coil measurements.

SPL (Maitri and Bharati/voyage)-Short term: Two aethalometers and QCM were installed on-board for the study of climate change and low latitude - high latitude coupling.

SAC (Maitri and Bharati/voyage)-Short term : team carried out the assessment of polar ice dynamics using remote sensing and in-situ observations. Different sea ice stages with its positions through GPS from Cape Town to Bharati Station and from Bharati station to India Bay were also noted down for the study of polar ice dynamics.

NPL(Maitri)-Long term: Research and Low Latitude High Latitude Coupling analysis was carried out using TEC measurements, Ionosonde and GPS Experimental Setup made for the Upper Atmosphere studies.

UV- Biometer (280nm - 320nm) and Pyranometer (200nm -2800nm) were also operated.

Earth Science

Geology & Glaciology : Continuous GPS monitoring between India and Antarctica done by the NGRI team (Long term)

NCAOR: Sediment, soil and water samples were collected from L7 Lake, lakes from McLeod, John, Sandercock and Manning Islands and Murkwate lake for geochemical, sedimentological and magnetic measurements, as also for understanding the study of biogeochemistry.

NCAOR: for Environmental Monitoring High Volume Sampler, Multi Stage Impactor Aerosol Spectrometer and Mercury Analyzer installed

The NHO team did observation by Geodetic & GIS receivers

Monitoring of DG glacier snout and recording of annual accumulation / ablation of snow on the Ice shelf and Polar Ice sheet are regular programmes being carried out by the geologists of Polar Studies Division of GSI. Point South of Priyadarshini Lake. Large Scale mapping on 1:5,000 scale with 5 Meter Contour Interval for an area bounded between the Latitudinal extent from 70° 45' 45" S and 70° 46' 45" S and Longitudes 11° 42' 00" E and 11° 45' 30" E.

BSIP: The team collected sediment cores for paleoclimatic studies based on terrestrial and marine records.

Biology & Environmental Sciences

samples of soil, moss, algae and lake sediments were collected from 29 different sites. The samples collected will be used for taxonomic and ecological studies on invertebrate fauna of Schirmacher Oasis, East Antarctica.

Environmental monitoring around Maitri was carried out by NCAOR