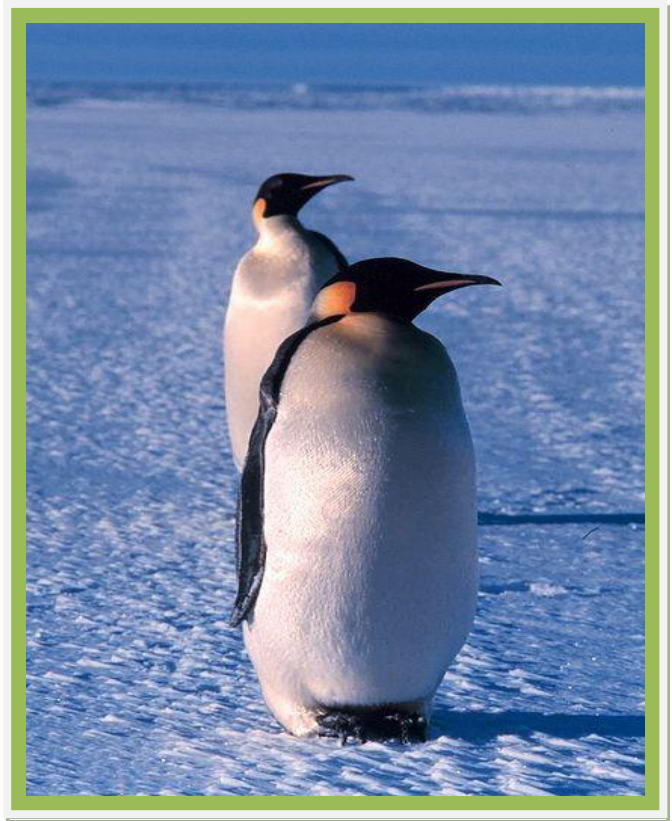


BRAIN STORMING SESSION ON POLAR SCIENCES

DATED 24TH SEPTEMBER 2010

GONDWANA LAND THEORY OF CONTINENTAL DRIFT

Antarctica, lying at the southernmost tip of the world, is the coldest, driest, and windiest continent. Ice covers 98 percent of the land, and its 13,209,000 square kilometers cover nearly one-tenth of Earth's land surface. Despite its barren appearance, Antarctica and its surrounding waters and islands team with life, the continent plays a significant role in the climate and health of the entire planet. The continent was once continuous with India as part of Gondwana land mass some 150 million years ago.



Climate of Antarctica

Lowest Temperature

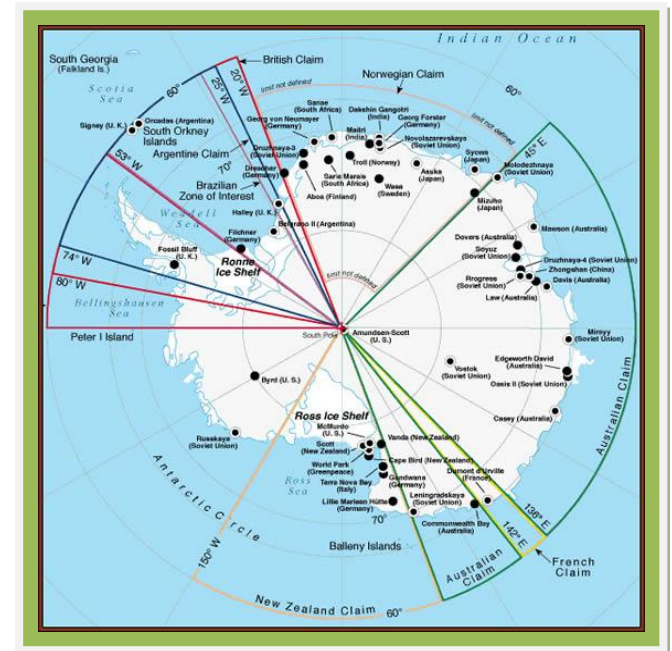
-89.2°C (-128.6°F); recorded on Thursday, July 21, 1983 at Vostok Station.

Highest Temperature

14.6°C (58.3°F) in two places, Hope Bay and Vanda Station, on January 5, 1974.

Mean Annual Temperature

The mean annual temperature of the interior is -57°C (-70°F). The coast is warmer. At the South Pole, the highest temperature recorded was -14°C (7°F). Along the Antarctic Peninsula, temperatures as high as 15°C (59°F) have been recorded, though the summer temperature is usually around 2°C (36°F).



Climate of Indian Station Maitri

- Highest ever temperature of 12.2 deg C, 3rd February 1996. Lowest ever temperature -38.0 deg C, 23rd July 2006.
- Lowest monthly mean temperature -34.5° C, August 1993. Highest monthly mean temperature 0.2° C, January 1993.
- Average annual wind speed at Maitri is 17.5 kt. Average annual Mean Sea Level Pressure is 985.9 hPa.

BRAIN STORMING SESSION ON POOLAR SCIENCES

DGM's office, IMD has conducted a Brain Storming Session on "Polar Sciences" on 24th September 2010 at India Habitat Centre, Gul-Mohar Hall, Lodhi Road, New Delhi-3. Dr. Shailesh Nayak, Hon'ble Secretary MoES, has graced the occasion as Chief Guest and delivered the inaugural address. AVM (Dr.) Ajit Tyagi, DGM IMD, has addressed the delegates. Dr. P. C. Pandey, Prof. IIT Kharagpur, Ex-Director, NCAOR, Goa has given a Lead-talk on Polar Sciences. About hundred scientists from IMD and different Antarctica-participating organizations, including IMD expedition members have attended the session. Twelve speakers from various participation organization like IMD, NPL New Delhi, NCAOR Goa, IITM Pune, SASE Chandigarh, Shri Ram Institute of Industrial Research New Delhi, SAC Ahmedabad etc have delivered their talks during three sessions on topics related to Weather Prediction & Modelling, Environmental Monitoring, and Polar Linking processes. At the end of the session a panel discussion was held and recommendations were given to further strengthen Indian Antarctic programme for future 5-10 years planning.

A condolence message in respect of the expired member of 28th Expedition, Shri Kuldeep Wali, AM-I was read by Shri M. K. De, Asstt. Met. IMD and two minutes silence was observed by the delegates to pay respect to the departed soul.



Inaugural Address - Secretary MoES



Lead talk – Dr. P.C. Pandey



Talk on Cryosphere – Shri B. Mukhopadhyay



Silence observed in memory of late Shri K. Wali

WHY THIS BRAIN STORMING SESSION?

The Indian Antarctic Programme is a multi disciplinary and multi institutional programme. Indian scientists have studied various atmospheric phenomenon related to Antarctica with special reference to Schirmacher Oasis during last three decades. This brain storming session will give an ample opportunity to share the experiences and work done by various participating organisations/ institutes. IMD has a role in studying of climatology, stratospheric ozone depletion and more challenging task of weather prediction at Maitri. Not only IMD but also other organisations have done distinguished work for study of polar sciences.

With the growing concern about climate change and Global Warming, the conference will be a place to discuss studies done as well as future research requirement for better understanding of atmospheric process at Antarctic region. Various disciplines of polar sciences are being covered by these participating organisations. The atmospheric science is one of them. The brain storming session definitely will give an opportunity to share work of participating organizations and more important is to trace the perspectives on polar research. Most of the organisations have large volume of data collection and research work. Research & development activities in respect of climate, modeling, radiation budget, sea-ice-ocean-atmospheric coupling, application of remote sensing on weather prediction and climate change need to be discussed during the session. Brainstorming will be important to enable the environmentalists to develop their areas of research. NWP Modeling and use of Satellite Imageries will further enhance accuracy of weather prediction at East Antarctica.

Significant feed backs derived from fruitful interaction with the participants will enable us to chalk out the strategy for future programme and to plan activities for next five to ten years.



Dr. S.R. Oza, SAC, Ahmedabad receiving memento



Shri M.K. De, IMD, receiving memento

TEAM LEADERS FROM INDIA METEOROLOGICAL DEPARTMENT

G. SUDHAKAR RAO	1993	13 TH EXPEDITION
Dr A. L. KOPPAR	1996	16 TH EXPEDITION
R. P. LAL	1998	18 TH EXPEDITION

IMD'S ANTARCTICA PARTICIPANTS

S. No.	YEAR	& NAME OF PARTICIPANTS
1 ST EXPEDITION	1981	A. K. SHARMA, K. N. KATYAL
2 ND EXPEDITION	1982	Dr. C. R. SREEDHARAN, A. K. SHARMA
3 RD EXPEDITION	1983	Dr S. R.H.RIZVI, Dr. L. S. RATHORE
4 TH EXPEDITION	1984	BHUKAN LAL, Dr M. SATYA KUMAR
5 TH EXPEDITION	1985	T. V. P.BHASKAR RAO, N. Y. APTE
6 TH EXPEDITION	1986	Dr A. L. KOPPAR, S. C. NAGRATH, A. A. FARUQI
7 TH EXPEDITION	1987	G. SUDHAKAR RAO, P. M. GULHANE, G. SHRINIWASAN
8 TH EXPEDITION	1988	S. D. PRASAD, D. G. RUSSAL, P. K. NANDANKAR
9 TH EXPEDITION	1989	SARABJIT SINGH, E.KULANDAIVELU, V.L.PRASADA RAO
10 TH EXPEDITION	1990	P. M. GULHANE, S. S KATARIA, R. K. SHARMA
11 TH EXPEDITION	1991	Dr A. L. KOPPAR , S. P.SHARMA
12 TH EXPEDITION	1992	S. VENKATESHWARLU, . R. P. LAL
13 TH EXPEDITION	1993	G. SUDHAKAR RAO, S. B. GAONKAR
14 TH EXPEDITION	1994	K. S. HOASALICAR, P. N. MACHNURKAR
15 TH EXPEDITION	1995	A. S. RASAL, D. R. MAHOR
16 TH EXPEDITION	1996	Dr A. L. KOPPAR, S. VENKATESWARLU, U. P. SINGH
17 TH EXPEDITION	1997	B. N. BISHNOI, MANMOHAN SINGH
18 TH EXPEDITION	1998	R. P. LAL, L. KRISHNAMURTHY
19 TH EXPEDITION	1999	E. KULANDAIVELU, S. VENKATESHWARA RAO
20 TH EXPEDITION	2000	SURESH RAM, MANAS KUMAR DE, MRS. S. STELLA
21 ST EXPEDITION	2001	R. P. LAL, P. N. MACHNURKAR
22 ND EXPEDITION	2002	CHATAR SINGH, S. P. SHARMA
23 RD EXPEDITION	2003	D.D. DESHPANDE, R. N. TRIPATHY
24 TH EXPEDITION	2004	SANJAY BIST, AMALENDU BARUA
25 TH EXPEDITION	2005	P.A.V. NAMPOOTHIRI, S. VENKATESHWARA RAO
26 TH EXPEDITION	2006	N. T. NIYAS, R. N. TRIPATHY
LARSEMANN HILLS EXPEDITION	2006	ANJIT ANJAN
27 TH EXPEDITION	2007	S. P. SHARMA, K. C. BHINDWAR
28 TH EXPEDITION	2008	KULDEEP WALI, P. RADHE SYAM
29 TH EXPEDITION	2009	N. CHANDRAHAS, TUSHAR V. PAWAR