



Dr. Thamban Meloth

Scientist-F & Group Director (Polar Sciences)
 ESSO-National Centre for Polar & Ocean Research
 (Ministry of Earth Sciences), Vasco da Gama, Goa - 430804

RESEARCH INTERESTS

Palaeoclimatology • Glaciology • Snow biogeochemistry

PROFESSIONAL CAREER

2016 Scientist-F, ESSO-National Centre for Polar and Ocean Research, Goa
 2002 Scientist-C, ESSO-National Centre for Antarctic Ocean Research, Goa
 2002 Scientist-B, CSIR-National Institute of Oceanography, Goa
 2001 JSPS Post Doctoral Fellow, Geological Survey of Japan, Tsukuba, JAPAN
 2000 Asst Professor, Government College of Kasaragod, University of Kannur, Kerala
 1997 DAAD Fellow, University of Bremen, Bremen, Germany
 1993 Research Fellow (CSIR-NET), National Institute of Oceanography, Goa

AWARDS & HONOURS

2013 National Geoscience Award, Ministry of Mines, Government of India.
 2008 NIPR Visiting Scientist Award, by the National Institute of Polar Research, Japan.
 2006 Certificate of Merit for Outstanding Contributions by Ministry of Earth Sciences, India
 2003 Prof. Naganna Gold Medal by the Mineralogical Society of India.
 2001 START Young Scientist Award by International Geosphere Biosphere Programme.
 2001 JSPS Fellowship, by the Japanese Society for Promotion of Science (JSPS), Japan.
 2001 Young Scientist Award, by the Indian Science Congress Association (ISCA).
 1999 PAGES / START Fellowship by PAGES (IGBP), Switzerland.
 1997 Young Sedimentologist Award by Indian Association of Sedimentologists (IAS).
 1997 DAAD Fellowship by German Academic Exchange Service (DAAD), Germany.

ROLES AT NATIONAL & INTERNATIONAL SCIENTIFIC BODIES

- Member, Research Advisory Committee (RAC), *Wadia Institute for Himalayan Geology (WIHG)* (2019 onwards)
- Member, Programme Advisory Committee (PAC) on Earth and Atmospheric Sciences, *Science and Engineering Research Board (SERB)*, India (2018 – 2021).
- Member, SCAR (Scientific Committee on Antarctic Research) National Committee, Indian National Science Academy (2020-2023)
- Member, Scientific Steering Committee, International Partnerships in Ice Core Sciences (IPICS) (2015 onwards)
- Member-Secretary, Research Advisory Committee, National Centre for Polar & Ocean Research (2014 onwards)
- Member, Board of Studies in Marine Geology, Mangalore University (2018 – 2021)

PROJECTS & RESEARCH GRANTS

- MADICE (Mass balance, dynamics, and climate of the central Dronning Maud Land coast, East Antarctica), Indo-Norwegian Project, funded by Ministry of Earth Sciences (India) and Research Council Norway (2016-2020)
- *Cryosphere and Climate (CyCle)*, funded by Earth System Science Organization, Ministry of Earth Sciences, India (2013-2017 & 2017-2020)
- *Glacio-chemical studies on ice cores from the coastal and inland region of East Antarctica*, funded by Ministry of Earth Sciences (2007-2012)

- *Southern Ocean palaeoceanography during the late Quaternary from the Indian sector*, funded by Indian Space Research Organization (ISRO) (2007-2010)
- *Establishment of Ice Core Laboratory*, funded by Department of Ocean Development, India (2002-2007)
- *High resolution study on late Quaternary palaeoceanography of the northern Indian Ocean*, SERC Fast Track Young Scientist project, funded by Department of Science and Technology, India (2000-2002)

CONTRIBUTIONS TO CAPACITY BUILDING

Post Doctoral supervision

Shipra Nagar: NPDF (National Post Doctoral Fellow) supported by SERB (Science and Engineering Research Board), India. Project - "Structural Investigations of Extracellular Polymeric Substances from Antarctic microbes"

PhD Supervision (Awarded)

- 2014 *M.C. Manoj* (Goa University): Geochemical studies on late Quaternary sediments from the Indian sector of Southern Ocean (Guide)
- 2015 *Runa Antony* (Goa University): Bacteria and their role in organic carbon dynamics in Antarctic snow (Co-Guide)
- 2017 *Roseline Thakur* (Goa University): Study of size segregated chemical composition of aerosols and air-snow interaction of ionic precursors over the Polar Regions (Guide)
- 2017 *Mahalinganathan K* (Goa University): Chemical and Stable isotope records of Antarctic snow and its implications on palaeoclimate studies (Guide)
- 2018 *Abhilash Nair* (Goa University) – Late Quaternary studies on climate variability in Indian sector of the Southern Ocean using diatoms (Co-guide)
- 2019 *Ankit Pramanik* (University of Oslo) – *Energy balance modelling and meltwater routing in a glaciated Svalbard fjord system* (Co-guide)
- 2019 *Vikram Goel* (University of Oslo) – Dynamics and past changes of ice rises in Dronning Maud Land, Antarctica (Co-guide)
- 2019 *Gautami Dev Samui* (Goa University): Biogeochemistry of selected supraglacial ecosystems in coastal Antarctica (Guide).

PhD Supervision (Ongoing)

- Tariq Ejaz* (Goa University) - Triple-oxygen and hydrogen isotope based ice core records of Antarctic climate variability (Guide)
- Rahul Dey* (Goa University) - Reconstruction of Antarctic Climate variability using high resolution ice core layer stratigraphy (Guide)
- Ajit T. Singh* (Goa University) - Hydrology and hydrochemistry of Chandra basin glaciers, Western Himalaya (Co-guide)
- Akansha Patel* (IIT Roorkee) – Impact of climate variability on glacier mass balance in regional, basinal and local scale (Co-guide)
- Aritri Sanyal* (Goa University) – Biogeochemical cycling potentials of cryoconite hole environments in coastal Antarctica (Guide)
- Sunil Oulkar* (Goa University) – Spatio-temporal changes in glacier mass balance using modeling and observations in the Chandra Basin, Western Himalaya (Guide)

PUBLICATIONS – Published more than **75 international/national peer-reviewed papers** (see the publication list) with **2100 citations** and have **h-index 23** (as per GoogleScholar)