Thamban Meloth | Curriculum Vitae



Dr. Thamban Meloth

Group Director, Polar Sciences ESSO-National Centre for Polar & Ocean Research (Ministry of Earth Sciences), Vasco da Gama, Goa - 403804

RESEARCH AREA

Cryosphere • Palaeoclimatology • Glaciology • Glacial biogeochemistry

PROFESSIONAL CAREER

I IIOI E	T NOT EDUTORITE CHREEK						
2021	Scientist-G, ESSO-National Centre for Polar and Ocean Research, Goa						
2016	Scientist-F, ESSO-National Centre for Antarctic Ocean Research, Goa						
2011	Scientist-E, ESSO-National Centre for Antarctic Ocean Research, Goa						
2007	Scientist-D, ESSO-National Centre for Antarctic 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 Fellow, National Institute of Advanced Industrial Science & Technology, Japan						
2000	Asst. Professor, Government College 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

2020	Fellow	National	Academy	of Science In	dia
2020	renow,	Mational	Academy	of Science II	iuia

- 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 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 INTERNATIONAL & NATIONAL SCIENTIFIC COMMITTEES

- Member, Scientific Steering Group, Cryosphere and Climate (CliC) Project of the World Climate Research Programme (WCRP) (2022 - 2026)
- Member, Scientific Steering Committee, International Partnerships in Ice Core Sciences (IPICS) (2015 onwards)
- Member, SCAR (Scientific Committee on Antarctic Research) National Committee, Indian National Science Academy (2020-2023)
- Member, IASC (International Arctic Science Committee) Cryosphere Working Group (2020 onwards)
- Member, Research Advisory Committee, *Wadia Institute for Himalayan Geology (WIHG)* (2019 onwards)
- Member-Secretary, Research Advisory Committee, *National Centre for Polar & Ocean Research* (2014 onwards)

PROJECTS - ONGOING & COMPLETED

- SIWHA (Sea Ice and Westerly winds during the Holocene in coastal Antarctica) project, initiated jointly between India, UK and Norway to drill a deep ice core from coastal Antarctica (2021-2026), funded by Ministry of Earth Sciences, India.
- *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)
- HiCOM (Himalayan Cryospheric Observations and Modelling) collaborative project with national institutions to undertake studies across Indian Himalaya (2017-2021), funded by Ministry of Earth Sciences, India
- *Cryosphere and Climate*, funded by Earth System Science Organization, Ministry of Earth Sciences, India (2013-2017; 2017-2020; 2021-26, continuing scheme under PACER)
- 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)

CAPACITY BUILDING IN POLAR AND CRYOSPHERE STUDIES

PhD supervised (completed) - 09

PhD Supervision (ongoing) - 06

PhD Supervision (completed)

- 2021 *Ajit T. Singh* (Goa University) Hydrology and hydrochemistry of Chandra basin glaciers, Western Himalaya (Co-guide)
- 2019 *Gautami Dev Samui* (Goa University): Biogeochemistry of selected supraglacial ecosystems in coastal Antarctica (Guide).
- 2019 Ankit Pramanik (University of Oslo) Climatic mass balance and meltwater routing of glacierized area of Kongfjord basin, northwest Svalbard (Co-guide)
- 2019 *Vikram Goel* (University of Oslo) Current status and past evolution of ice rises in Dronning Maud Land, Antarctica (Co-guide)
- 2018 Abhilash Nair (Goa University) Late Quaternary studies on climate variability in Indian sector of the Southern Ocean using diatoms (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)
- 2015 Runa Antony (Goa University): Bacteria and their role in organic carbon dynamics in Antarctic snow (Co-Guide)
- 2014 *M.C. Manoj* (Goa University): Geochemical studies on late Quaternary sediments from the Indian sector of Southern Ocean (Guide)

PhD Supervision (ongoing)

Tariq Ejaz (Goa University) - Triple-oxygen and hydrogen isotope based ice core records of Antarctic climate variability (Guide)

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- Rahul Dey (Goa University) Reconstruction of Antarctic Climate variability using high resolution ice core layer stratigraphy (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)
- Sibin Simon (Goa University) Extreme precipitation events and its influence on the Antarctic ice core climate records (Guide)

PUBLICATIONS -

Published more than **90 peer-reviewed publications** in reputed high impact international and national journals (detailed list of my peer-reviewed publications are at https://ncpor.res.in/upload/publication/Thamban Publications 2022.PDF).

Thamban's research publications have received more than <u>3000 citations</u> (Google Scholar>> https://scholar.google.co.in/citations?hl=en&user=mstcHuYAAAAI)

Thamban's <u>h-index is 26</u> and <u>i10-index is 56</u> (Google Scholar), supporting the high impact of the scientific contributions.
