



NCPS-2023

May 16-19, 2023
NCPOR, Goa



सत्यमेव जयते

Ministry of Earth Sciences
Government of India



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Amrit Mahotsav



NATIONAL CONFERENCE ON POLAR SCIENCES

Organised by:

National Centre for Polar and Ocean Research
Ministry of Earth Sciences, Government of India
Headland Sada, Vasco-da-Gama, Goa 403 804, India

Abstract submission opens 13th February 2023

<https://ncps.ncpor.res.in> | #NCPS2023 |

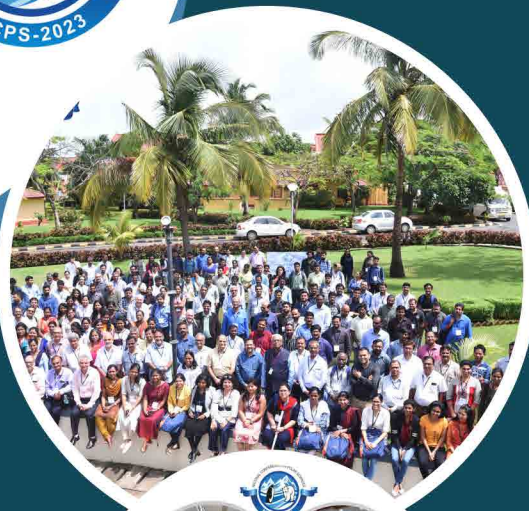
ABOUT THE HOST INSTITUTE

National Centre for Polar and Ocean Research (NCPOR) is an autonomous R&D Institution under the Ministry of Earth Sciences (MoES). NCPOR spearheads the Indian polar research activities in the Arctic, Antarctic, Southern Ocean, and the Himalaya. The Indian exploration of Polar Regions started in 1981 with the Antarctic Expedition. It expanded its horizon to Southern Ocean research in 2004, with a bipolar focus on the Arctic in 2007 and Himalayan activities in 2013. The Indian scientists also traversed to the South Pole in 2010 to commemorate the 100 years of the first human presence in the geographic South Pole. NCPOR is also a nodal agency for major geo-scientific and mineral resources explorations of Strategic Importance.



BACKGROUND

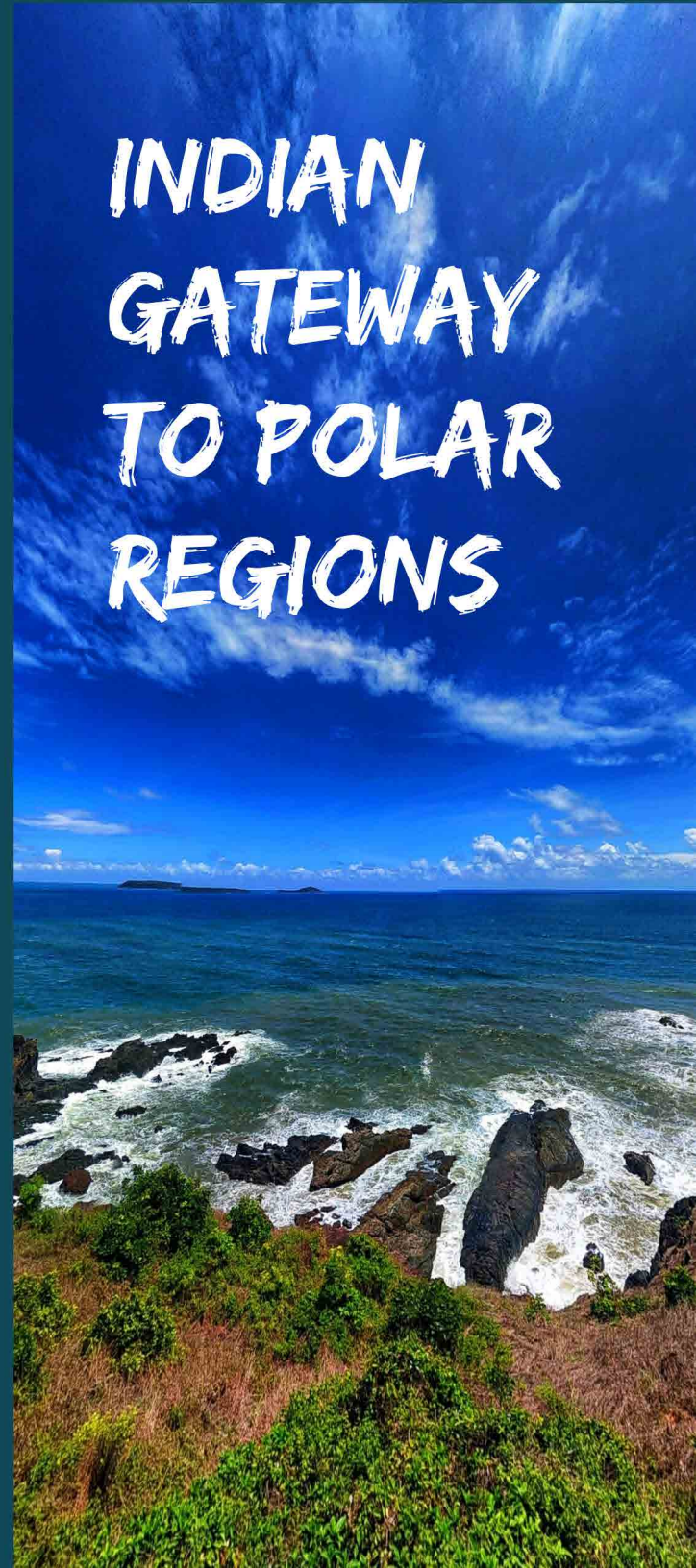
The phenomenal success of NCPS-2017 and NCPS-2019, attracting over 250 participants, including about 100 young researchers, offered a unique opportunity for the Indian polar community to interact. NCPS-2023 aims to bring eminent researchers working in diverse polar regions of the Arctic, Antarctic, Southern Ocean, and the Himalaya to a common ground where interdisciplinary approaches can be discussed to address the various scientific and operational issues. This event will also provide a platform for Early Career Researchers to interact and exchange their research ideas, findings, and experiences.



Venue & Date

The conference is hosted by the National Centre for Polar and Ocean Research, Goa, at NCPOR premises during May 16-19, 2023. This will be an in-person conference.

INDIAN GATEWAY TO POLAR REGIONS





A Workshop on Sea-ice Modelling and Observations (SiMO)

Sea ice is one of the least understood parameters of the cryosphere. On 16-17 May 2023, a workshop will be held to gain a better understanding of sea-ice processes and dynamics in climate modelling and the interaction with the ocean and atmospheric forcing. There will be lectures by national and international experts working on sea ice modelling and observations. This workshop aims to provide young and experienced researchers with state-of-the-art knowledge of sea ice and its role in the global system. Additionally, the workshop provides young researchers with an opportunity to learn about nascent sea ice research theories and techniques.

Eligibility:

Researchers interested in the field of sea-ice / polar modelling / observations.

NCPS-2023 PROGRAMS

Young Polar Scientist Meet (YPSM)

A Young Polar Scientist Meet (YPSM) will offer an opportunity for young researchers to interact with polar experts of national/international reputation. This YPSM aims to support their scientific skills and build a national interdisciplinary research network with colleagues and senior polar scientists.

Eligibility:

YPSM is open for early career researchers below age 35 (as of March 31, 2023). The early career researcher can be a Ph.D. Scholar/Post PhD (within 5 years of the award of PhD).

All participants of YPSM are encouraged to give poster presentations; based on the novelty of their research findings, some selected young researchers shall be invited for a flash presentation (duration - 05 minutes). The best Young Polar Scientist Award will be given for oral and poster presentations.

OPEN SCIENCE CONFERENCE (OSC)

The conference will have plenary lectures, invited keynote lectures, as well as contributed oral/poster presentations under various sessions and themes

Scientific Themes and Sessions

Researchers are invited to participate and present their findings on various aspects of Polar Regions, including the Himalayas. The conference will include invited and contributed oral as well as poster presentations. High-quality original and unpublished work (conceptual, constructive, empirical, experimental, or theoretical) shall be encouraged.

Abstracts for poster presentation under YPSM are invited from early career researchers. Abstract under YPSM and conference can be submitted under the same theme.

A Workshop on Sea-ice Modelling and Observations (SiMO)

May 16-17, 2023

Programme

- 1 Invited lectures by National and International experts on the Importance of sea ice in the global climate system.
- 2 Invited lectures on the Observation and Modelling of sea-ice

Young Polar Scientists Meet (YPSM)

May 17, 2023

Programme

- 1 Special Research Orientation Talk for Early Career Researchers by Eminent Scientists
- 2 Poster Presentation by Early Career Researchers
- 3 Presentation Winners Announcement Oral Presentation of Six Best Posters
- 4 NCPOR LAB Visit



OPEN SCIENCE CONFERENCE (OSC)

MAY 18-19, 2023

THEMES AND SESSIONS

1

Crustal Evolution and Reconstruction

- (a) Geochronology, Geochemistry and Petrology
- (b) Crustal Evolution: Insight from Recent Geophysical and Geological Investigations
- (c) Geodesy and geodynamics

2

Space Weather and Meteorology

- (a) Solar-terrestrial Interaction Studies
- (b) Weather and Climate

3

Southern Ocean

- (a) Ocean-atmospheric Processes
- (b) Biogeochemical Processes
- (c) Ocean Modelling

4

Climate Change and Variability

- (a) Physical forcings, biogeochemical feedbacks and variability

- (b) Past climate variability and global linkages

- (c) Climate change and impact in polar regions

5

Cryospheric Processes and Dynamics

- (a) Cryospheric processes and variability
- (b) Glacier dynamics, processes and glacio-hydrological responses

6

Sea ice variability and modelling

- (a) Sea ice variability and dynamics through time and space
- (b) Sea ice modelling and observations

7

Environment and Ecology

- (a) Plankton: climatological and ecological perspectives
- (b) Diversity and Ecology of Flora and Fauna
- (c) Microbial diversity: their role in the environment and industry
- (d) Environmental monitoring and assessment

8

Polar Operations

- (a) Cold climate engineering: buildings, mechanical systems, alternate energy systems
- (b) Communication and AI/ML-digital data management
- (c) Medical & Social issues: Polar medicine, impacts of the polar environment and isolation over winter on individuals and communities
- (d) Safety: human safety, equipment, clothing, operating procedures and search & rescue
- (e) Education and outreach



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GUIDELINES FOR ABSTRACT SUBMISSION

The abstract text is to be limited to a maximum of 350 words, typed in Arial font size 12 in MS Word (only), mentioning the Title, Name(s) of the Author(s), Affiliation should be submitted through the conference website (<http://www.ncps.ncpor.res.in>). Abstracts must focus on scientific/operational results or their application. One author can submit only one abstract as a first author. However, an additional contribution may be submitted by sharing their experiences and ideas related to outreach activities in the 'Education and Outreach session'. While submitting the abstract, the author must mention the sub-theme under which he/she is willing to present their work and the corresponding author's name during online submission. The author should also indicate Oral or Poster preferences while submitting an abstract for the OSC and a poster for YPSM; however, the final decision on Oral or Poster will be announced while accepting the abstract.

ORGANISING COMMITTEE

Dr. Rahul Mohan
NCPOR, Goa (Chairman)

Dr. Avinash Kumar
NCPOR, Goa (Convenor)

Shri Lalit Ahirwar
NCPOR, Goa (Member)

Dr. Rohit Srivastava
NCPOR, Goa (Member)

The corresponding author shall ensure that all co-authors have agreed to be listed in the abstract. Final decisions regarding the placement of individual abstracts and sessions rest with the Session Chairs and Scientific Program Committee.

REGISTRATION

Online Registration Fees

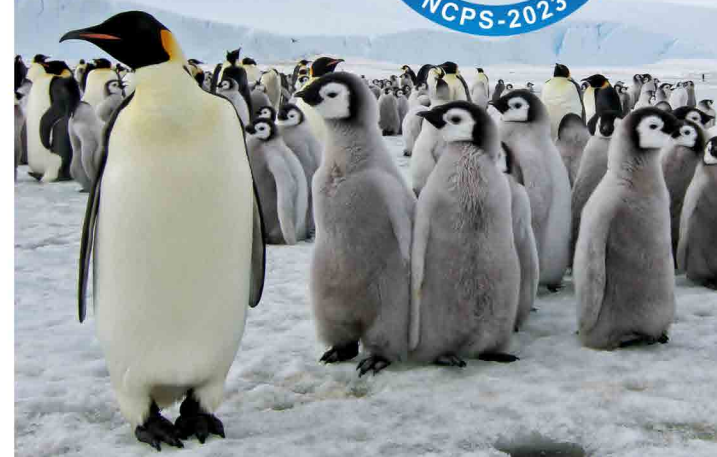
For Research Students	Rs. 1500/-
For Scientists/Others	Rs. 3500/-
Onsite Registration Fees	Rs. 4000/-

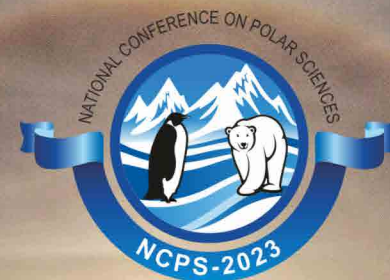
Only Demand Drafts/Cash will be accepted for Onsite Registration (Demand Draft to be drawn in favour of NCPOR payable at Goa). Registration fee includes conference material, working lunch and a dinner.

For online transfer of the amount through NEFT, the details are as follows:

Name of Account holder: NCPOR
Account No: 10153336180 (SBI, Vasco)
IFSC: SBIN0004116

REGISTRATION NUMBER is important and has to be mentioned while transferring the amount; however, no cash deposit in the said account is acceptable.





IMPORTANT DATES

Online registration and abstract submission starts	: Feb 13, 2023
Last date for abstract submission	: March 31, 2023
Notification of Acceptance of Abstract	: April 25, 2023
Online registration Closes	: May 06, 2023

ACCOMMODATION AND TRAVEL

Shared hostel/shared hotel accommodation may be provided on request for Research Students. A list of hotels at Vasco (a short distance from the conference venue) at special prices will be available for booking directly on a payment basis.

CONTACT

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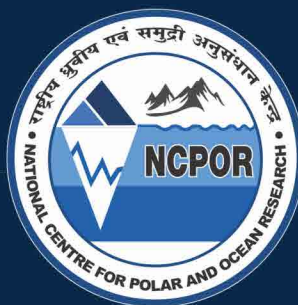
FINANCIAL SUPPORT

Limited financial support may be available on request for research students and early career researchers below age 35 (as of March 31, 2023).



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