



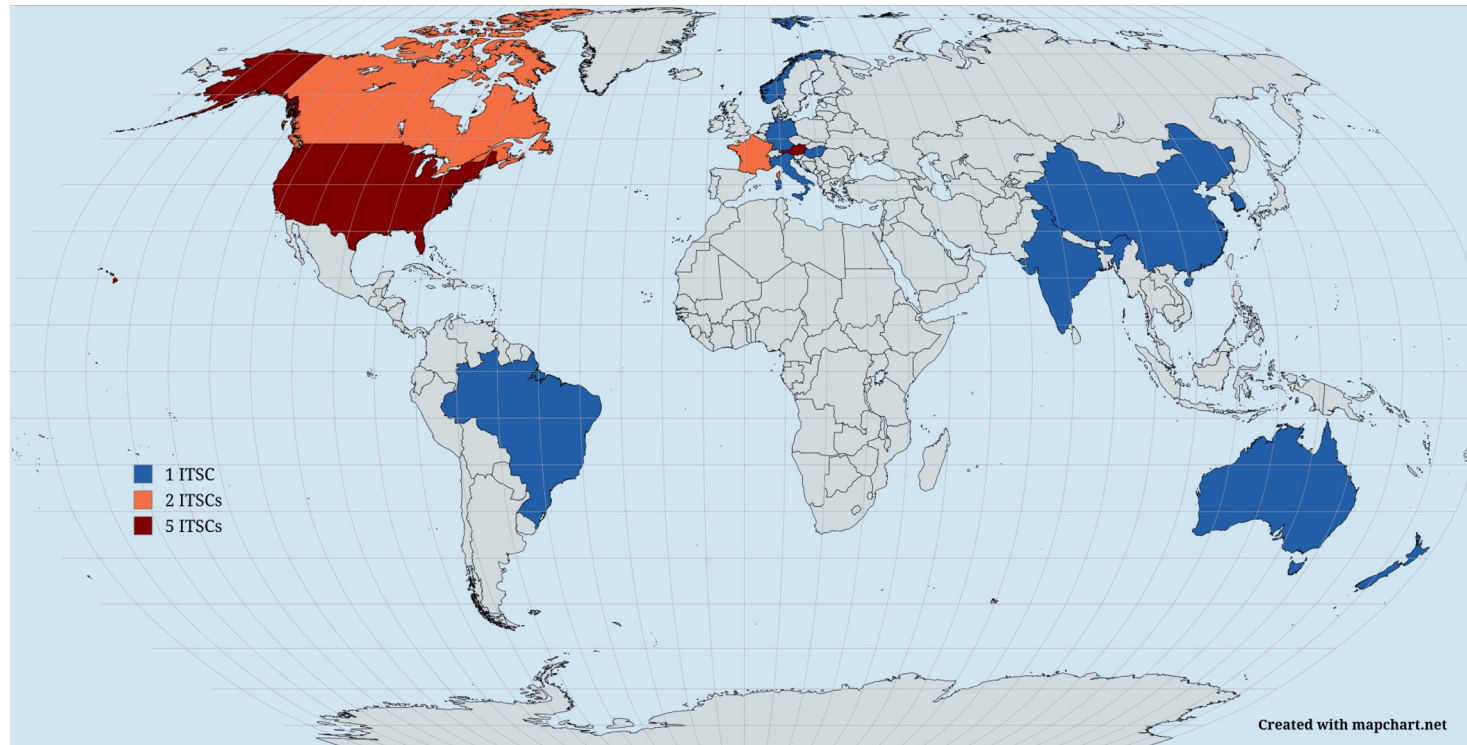
# 25th International TOVS Study Conference (ITSC-25) 8–14 May 2025 Goa, India

**Reima Eresmaa<sup>1</sup> and Fiona Smith<sup>2</sup>**

<sup>1</sup>Finnish Meteorological Institute, Finland

<sup>2</sup>Bureau of Meteorology, Australia

# The International TOVS Study Conferences (ITSC)



- ITSC-1 was held in Igls, Austria in August 1983
- There have been 24 follow-up conferences at various international locations once every  $21 \pm N$  months ( $N \approx 5$ )
  - The one exception being ITSC-23 that was held as a virtual conference in June 2021

# ITSC-25 at Goa, India

- The conference will run from Thursday 8<sup>th</sup> to Wednesday 14<sup>th</sup> May
- There will be
  - 17 plenary thematic sessions distributed across Thursday, Friday, Monday, and Tuesday
  - 7 working group meetings on Saturday
  - Recap sessions on Wednesday morning
  - Social activities and general relaxation time on Sunday
  - Ice-breaker event in the evening of Thursday
  - Banquet dinner in the evening of Monday
  - A dinner at the Rio Pool Lawn area in the evening of Tuesday

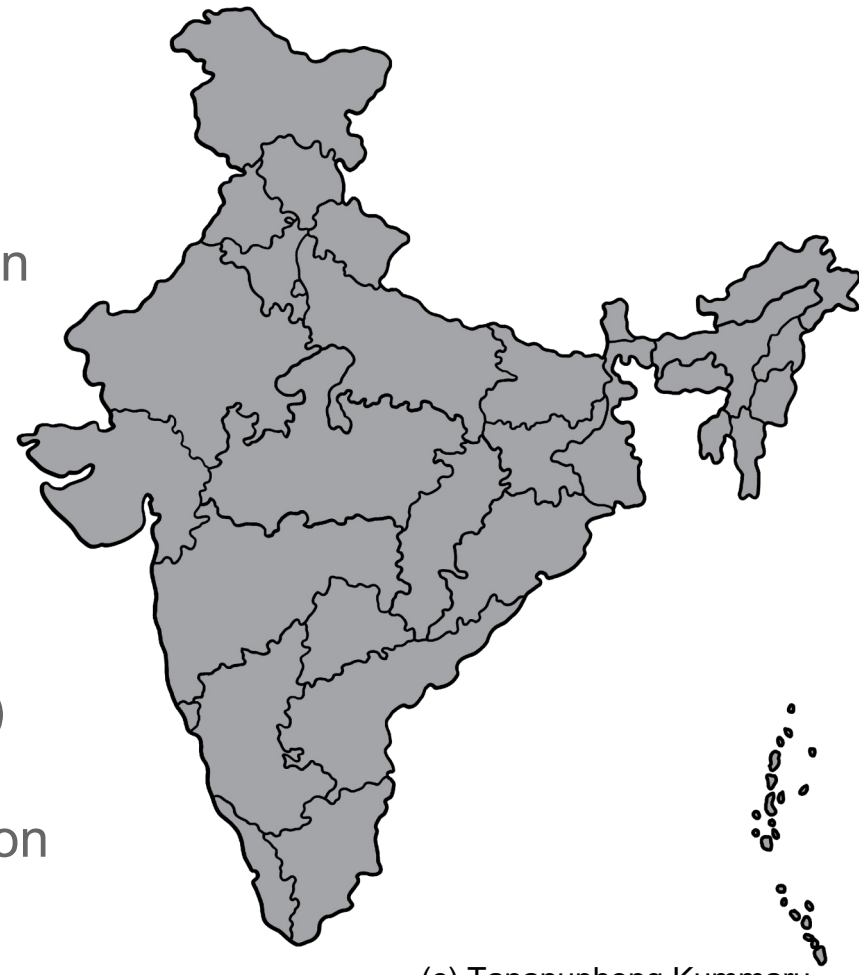
# ITSC-25 at Goa, India

- The plenary sessions will feature
  - 73 oral presentations
    - These include some pre-recorded video displays
  - 74 poster presentations
    - There will be a one-hour time slot dedicated for poster viewing each afternoon
- *We will award prizes to those fortunate attendees who deliver the best oral and poster presentations!*
  - The award ceremony will take place at the dinner on Tuesday

# ITSC-25 – it's our 1<sup>st</sup> time in India!



- The Republic of India is the seventh largest country by area – the most populous country from June 2023 onwards
- India's space program has established itself as a prominent player in space exploration. Some of their accomplishments include
  - Aryabhata – India's first satellite launch in 1975
  - Chandrayaan-1 – lunar mission – confirmed the presence of water on the Moon in 2008
  - Chandrayaan-3 – landing near the lunar south pole in 2023
- Indian Space Research Organisation (ISRO) continues to maintain and develop a very considerable contribution of Earth Observation satellites. Some examples
  - INSAT-3D and INSAT-3DR
  - Megha-Tropiques SAPHIR
  - Oceansat series



(c) Tananuphong Kummaru

# Our place in the meteorological satellite community

- ITSCs are plenary meetings of the International TOVS Working Group (ITWG)
- The mission of ITWG is to
  - Foster international co-operation on research and operational use of passive sounder data provided by meteorological satellites
  - Make recommendations and set action items to guide future research and influence relevant space programs
- ITWG is a subgroup of both
  - the Coordination Group for Meteorological Satellites (CGMS)
  - the International Radiation Commission of the International Association of Meteorology and Atmospheric Sciences (IAMAS)
- We also have strong connections to WMO

- Coordination Group for Meteorological Satellites (CGMS)
  - We are a Science Working Group that is part of CGMS Working Group 2
  - Other WG2 SWGs are IWWG, IROWG, IESWG, IPWG and ICWG
  - CGMS members are satellite operators
  - CGMS assigns us actions and ask us to report on the progress of their High Level Priority Plan
  
- International Radiation Commission (IRC) of the International Association of Meteorology and Atmospheric Sciences (IAMAS)
  - IRC is a global network of scientists engaged in research of atmospheric radiation and related disciplines. Founded in 1896, IRC is the oldest of the ten commissions of IAMAS
  - The Commission coordinates research, guides priorities, and supports international cooperation and collaboration

# The plenary sessions at ITSC-25 are in alignment with the CGMS High Level Priority Plan 2024–2028

Thursday 8 <sup>th</sup> May	Friday 9 <sup>th</sup> May	Monday 12 <sup>th</sup> May	Tuesday 13 <sup>th</sup> May
<b>Session 1:</b> Coordination of satellite systems, operations and end-user support	<b>Session 5:</b> Radiative transfer studies	Session 9: Advances in assimilation methods	Session 13: NWP centre status reports
<b>Session 2:</b> Impact studies	<b>Session 6:</b> Generation of products	Session 10: All-sky assimilation	Session 14: Future microwave technologies
<b>Session 3:</b> New microwave capabilities	<b>Session 7:</b> Exploitation of artificial intelligence and machine learning	<b>Session 11:</b> Calibration of sensors	Session 15: Impacts in Indian regional applications
<b>Session 4:</b> New infrared capabilities	<b>S8: Climate studies</b>	Session 12: Space agency reports	Session 16: The use of surface-sensitive data
			Session 17: Regional studies



# Thank you!

- NCMRWF
  - Dr V S Prasad
  - Dr Indira Rani
  - Ayushi Sharma who is helping Leanne
  - Akhilesh Mishra and Sumit Kumar who have helped with the airport arrangements and the poster boards
  - Harish Khati who sorted out the political clearance
  - All the other NCMRWF staff who have helped
- University of Wisconsin
  - Leanne Avila
  - Maria Vasys - she is not here but she has done a lot behind the scenes
  - Chelsea Dahmen who looks after the money
  - PLACE: Kelly Nee, Breanne Ivens and Vinita Kripalani without whom we would not be here
- Our attendees
  - We thank you for your patience with the arrangements and your determination to get here
  - Special thanks to those who have taken on a session or working group chair role

# We thank our sponsors for their generous support for making ITSC-25 another great success story:

- National Centre for Medium Range Weather Forecasting NCMRWF
- Ministry of Earth Sciences, India MOES
- Indian Space Research Organisation ISRO
- Indian Meteorological Society IMS Noida Chapter
- National Oceanic and Atmospheric Administration NOAA
- Weather Stream
- EUMETSAT
- Centre National d'Études Spatiales CNES
- Météo-France
- Deutscher Wetterdienst DWD
- L3 Harris
- Tomorrow Industries
- Mr Carl Schoeneberger
- University of Wisconsin-Madison
- Space Science and Engineering Center SSEC

