

Indicative Programme

- NISAR Mission Overview
- NISAR Products & Data Access
- Space Policy Directives & Scope
- Opportunities for NGEI
- Discussion & Feedback

About Space Applications Centre

Space Applications Centre (SAC) is one of the major centres of the Indian Space Research Organisation (ISRO) located in Ahmedabad, Gujarat. SAC focuses on the design of space-borne instruments for ISRO missions and development and operationalization of applications of space technology for national development. The applications cover communication, broadcasting, navigation, disaster monitoring, meteorology, oceanography, environment monitoring and natural resources survey. SAC is responsible for the development of NISAR S-band SAR hardware, L&S band ASAR hardware, data processing and leading the NISAR science activities in India. (website: <https://sac.gov.in/Vyom>)

About Ahmedabad City

Ahmedabad is a world heritage city and the largest city of Gujarat State. It is located on the banks of the River Sabarmati, 30 km from the state capital Gandhinagar. The city is well connected with major Indian cities by air, rail and road. Space Applications Centre (ISRO) is situated at the western part of Ahmedabad city and can be reached by road from Ahmedabad airport (18km), railway station (10km) and Interstate bus terminus (10km).

The weather in Ahmedabad remains dry and warm during the month of April with temperature ranging typically from 35°C to 40°C.



How to Get Involved

- **Register** and participate in the **NISAR Awareness Workshop** to understand the capabilities and nuances of access to the NISAR data products.
- **Explore the networking opportunities** with scientists and industry participants to curate your area of interests and intended business use-cases.
- **Explore the opportunities to engage in Joint Research and Validation Activities** with the NISAR science and applications teams of ISRO.

Important Information

Due to the prior requirement of security clearance for entry to the SAC campus, it is mandatory for all the participants and invitees to register for the workshop. Registration to the workshop is FREE.

Kindly click on the link or scan the QR code for registration form: forms.gle/ak3D2Hfjcv1jfnEx7



Registration closes on April 10, 2025

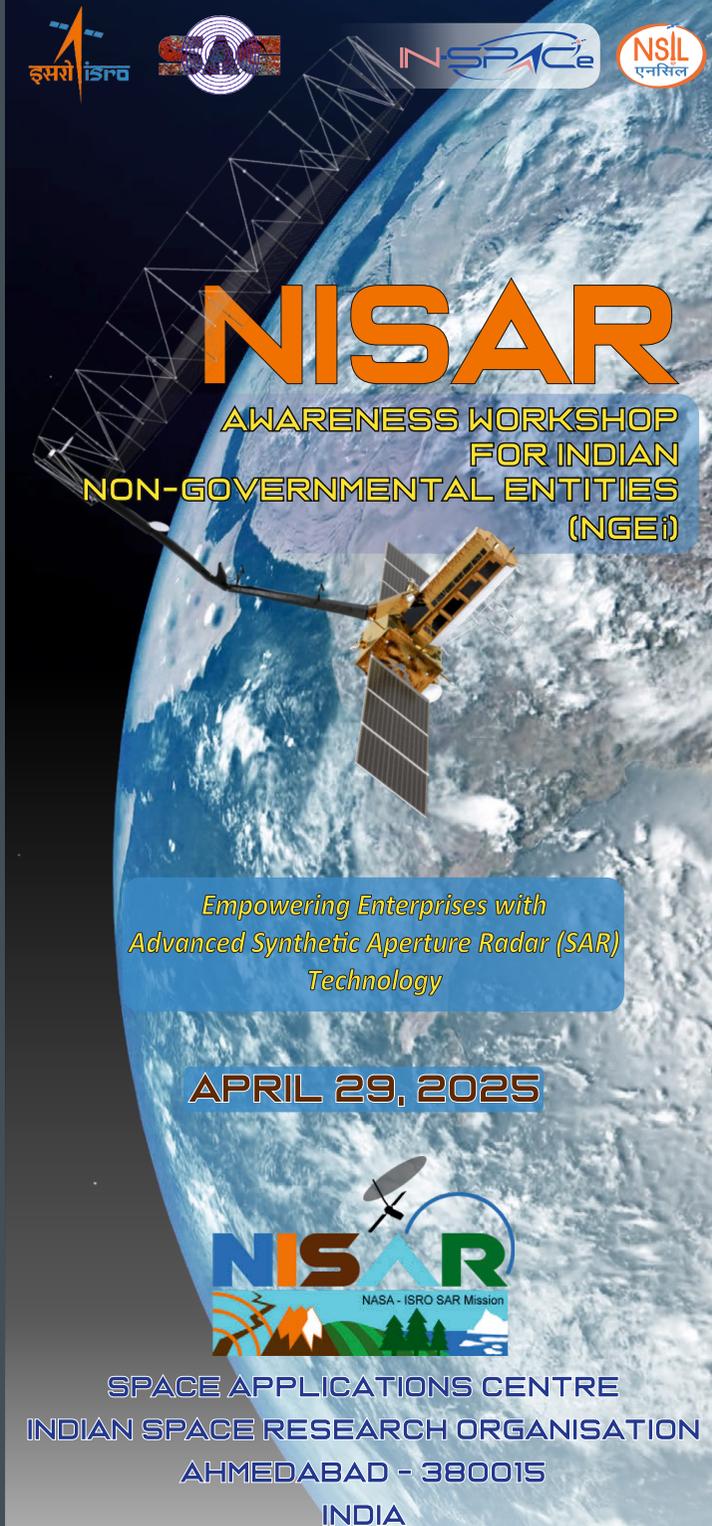
This workshop is organized by Space Applications Centre (ISRO) in association with IN-SPACE and NSIL.

Contact Us

NISAR Awareness Workshop (NGEi)
Space Applications Centre (ISRO)
Government of India, Department of Space,
Jodhpur Tekra, Ambawadi Vistar P.O.
Ahmedabad-380015
Email: nisar-nge@sac.isro.gov.in
Ph: +91-79-2691-4141 (10 AM to 5 PM)

Disclaimer:

- *Preferable mode of communication is e-mail.*
- *Multiple registration from a single entity may be restricted, subject to representation and relevance to this workshop.*
- *Participants are expected to make their own arrangements for travel and accommodation.*



The poster features a satellite in orbit over Earth. At the top, logos for ISRO, SAC, IN-SPACE, and NSIL are displayed. The main title 'NISAR' is in large orange letters, followed by 'AWARENESS WORKSHOP FOR INDIAN NON-GOVERNMENTAL ENTITIES (NGEi)' in yellow. A blue box contains the text 'Empowering Enterprises with Advanced Synthetic Aperture Radar (SAR) Technology'. The date 'APRIL 29, 2025' is prominently shown. At the bottom, the NISAR logo is accompanied by the text 'NASA - ISRO SAR Mission'. The footer includes 'SPACE APPLICATIONS CENTRE', 'INDIAN SPACE RESEARCH ORGANISATION', 'AHMEDABAD - 380015', and 'INDIA'.

About NISAR Mission

The NASA-ISRO Synthetic Aperture Radar (NISAR) mission is a landmark Earth Observation (EO) initiative jointly developed by NASA and ISRO. With Mid-2025 launch schedule, NISAR aims to revolutionize Earth Observation by providing comprehensive, consistent and freely available SAR data for diverse applications across sectors. Key features of NISAR includes:

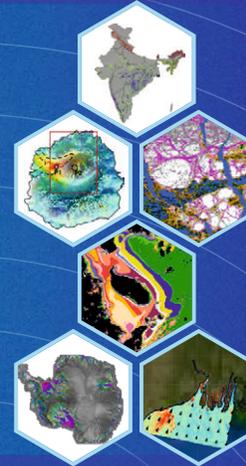
- Dual-frequency SAR technology (L-band and S-band)
- Polarimetric and interferometric observations
- Systematically monitor Earth's land and ice surfaces
- High Revisit Frequency with 12 days global coverage
- High-resolution datasets over wide swaths
- Easy Access to data
- Analysis ready data products

Major Application Themes



Operational Science Products from NISAR

- Active Crop Map
- Forest Biomass
- Forest Disturbance
- Mangrove Cover
- Soil Moisture
- Surface Water Extent
- Glacier Facies
- Wet Snow Cover
- Glacier Velocity
- Ocean Surface Wind Speed



About Workshop & Scope

The New Space Policy of India encourages Non-Governmental Entities (NGE) to engage in various domains of space sector through innovation and technology development. With this directive, Space Applications Centre-ISRO is organising a one day NISAR Awareness Workshop for Indian NGE, to share upfront details about the NISAR mission and the scope of technical/scientific collaboration.

Opportunities for NGEi:

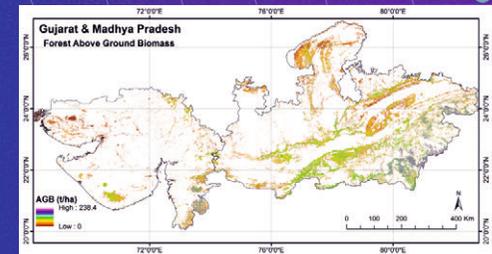
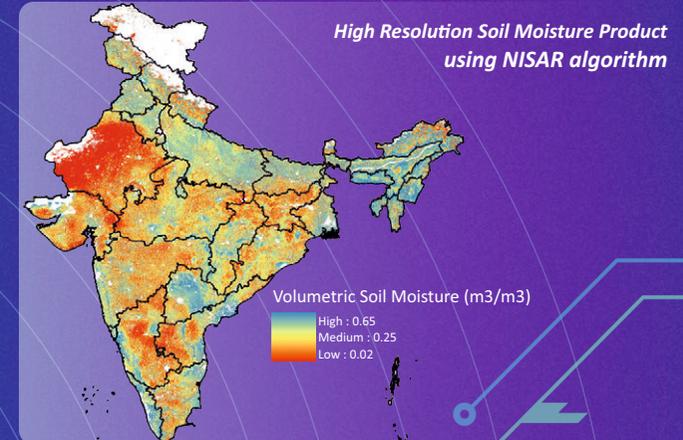
- NISAR Data Utilisation
- New Applications Development
- Algorithm & Product Development
- Calibration & Validation
- Value Added Product Development & Services
- Pilot Projects & Case Studies Demonstration
- Data Analytics & Data Services
- Training & Capacity Building

What we offer:

- Technical Knowledge Sharing
- Training & Capacity Building
- Scientific & Technical Collaboration

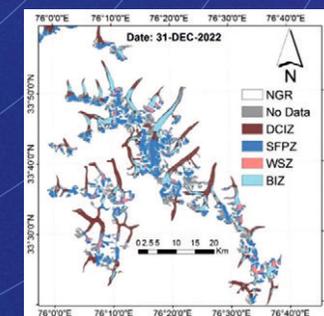
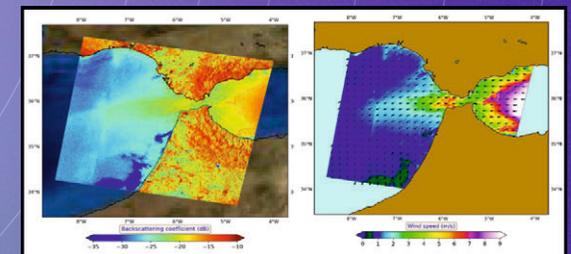
In addition, participants can explore and discuss possible opportunities for commercial avenues.

Glimpses of ISRO Science/Application Products from NISAR Mission



Forest biomass generated using NISAR AGB algorithm

Estimation of High-Resolution ocean surface winds using NISAR algorithm



Glacier facies map using NISAR algorithm