5 Day Training on
Microwave Remote Sensing Applications
(August 21 - 25, 2023)

RISAT 1

The successful launch of indigenously developed SAR satellite, Radar Imaging Satellite RISAT-1 active microwave remote sensing satellite, has opened up new vistas for operational utilization of microwave data for management of natural resources and Disaster management.

RISAT-1 which carries a multi-mode C-band (5.35 GHz) Synthetic Aperture Radar (SAR) as the sole payload, operates at various beam modes having a number of combinations of linear as well as circular polarization, varying swath in the range of 200-600 km and spatial resolution varying between 3 to 50 m depending on the type of mode. Unique applications of radar technology and synergy with optical data have tremendous scope for a better understanding in developing new applications. The RISAT-1 microwave data is useful in the fields of Agriculture, Soils, Forestry, Earth Sciences, Snow, Hydrology, Oceanography and Disaster Applications. Also, RISAT-1 provides unique characteristics of fully polarized & compact polarized data in multi incidence besides being equipped for interferometry. The follow-on launch of RISAT 1-A in Feb. 2022 will ensure continuity of data.

Training Focus:

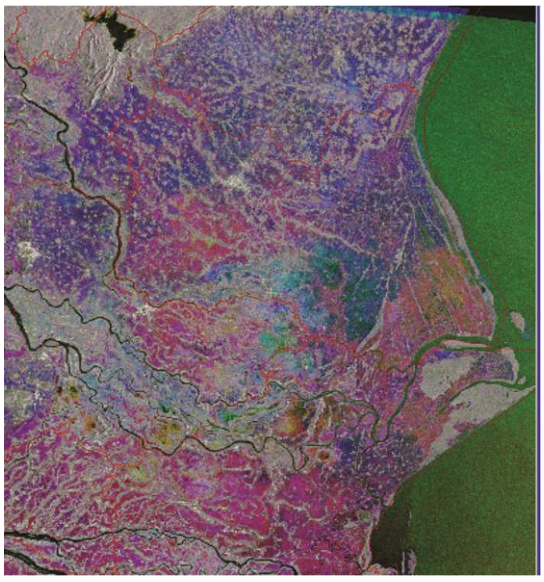
The main objective of this course is to provide basis for enhancing knowledge of the participants towards a better understanding of SAR data processing, interpretation and utilization for various applications.

The course covers Microwave Remote Sensing Technology & Applications addressing:

- Introduction to SAR Technology
- SAR Signal Processing
- Interferometry
- Polarimetry

Resource Applications, Case studies and Demonstrations using COTS and Open tools in

- Agriculture & soils
- Environment & Forestry
- Snow & Hydrology
- Oceanography
- Disaster Management



SAR Polarimetric Composite

Eligibility & Selection

Users/Professionals working in Satellite imagery and applications domain and having Masters in Science or Bachelors degree in Engineering or Graduation with 2 years of experience in relevant areas. Knowledge in working with optical satellite imagery and experience in using Image Processing software is essential. Selection of candidates is subject to fulfillment of eligibility criteria, current utilization, scope of work in the domain and prior exposure to remote sensing tools will be considered.

How to Apply?

Duly filled applications form with sponsorship certificate are invited from working professionals of State Government / Central Government Departments, NGOs, Private Companies and Faculty/Research Scholars from Academic Institutions who are gearing up to utilize SAR datasets for various Research projects. The application form should reach NRSC, Hyderabad by speed post (EMS) by August 11, 2023. Candidates can send a scanned copy of the application form with course fee DD to training@nrsc.gov.in (attachment < 4 MB) as advance copy and duly send the originals by speed post to reach the address mentioned below before the due date.

Course Fee & Admission

The course tuition fee payment to be made by Electronic Bank Transfer to NRSC account. Visit our website for more details. Kindly enclose and send duly filled application form with sponsorship certificate should reach us on or before the due date. Selected candidates will be intimated by email/mobile. Candidates will be provided accommodation in NRSC Guest House II inside the campus and food is served by NRSC canteen at a nominal price. Right of admission reserved with NRSC.

Course fee (Rs.) for individual candidate				
Central Govt./ State Govt.	**PSU/ Autonomous Bodies & its Institutes**	**Private/ NGO (Fee + GST 18%)**	**Academia**	
			Pure Govt. Institutes	**Private/ Other Institutes**
4800	**4800**	**600 + 1080 = 7080**	**4500**	**4500**

* GST of 18% is applicable to any receipt amount exceeding Rs. 5000/-

Postal Address:

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