

About IIRS

Indian Institute of Remote Sensing (IIRS), a unit of Indian Space Research Organisation (ISRO), is a premier institute for capacity building and research in the field of remote sensing and geoinformatics. Since its establishment in 1966, IIRS is a key player for training and capacity building in geospatial technology and its applications through training, education and research in Southeast Asia. The Institute has a multi-disciplinary and problem oriented research agenda focusing on developing land-ocean-atmosphere applications and understanding Earth's surface and subsurface processes using primarily the space-based technologies. The research programmes are intricately linked to overall goal of ISRO towards operationalisation of space-based services for national development.

About Workshop

The workshop on applications of satellite altimetry for inland water bodies is being organized which will provide an overview of advance remote sensing technique of altimetry and geospatial technology (RS & GIS) use for quantitative assessment and monitoring of inland water bodies. The main aim of this workshop is spread awareness about importance of satellite altimetry in monitoring the water level of inland water bodies, its use in reservoir sedimentation and hydrological modelling. It will provide platform to start an interaction between main stakeholders such as government agencies, academia, industry and NGO's for monitoring and management of water resources using satellite altimetry.

Workshop Outline

The workshop will cover following topics related to satellite altimetry.

- Introduction of altimetry, its principles and future missions
- Re-tracking algorithms for Inland water level estimation
- Progress in river flow estimation using altimetry data
- Integrated approach of altimetry and hydrometric data based reservoir sedimentation
- Use of satellite altimetry data to calibrate and validate hydrodynamic models

Workshop Fee

There is no course fee for attending this workshop.

Target Participants

The course is designed for professionals from Central / State Govt. / Private Organizations / NGO engaged in hydro-meteorological based regional and national projects; students and researchers aligned to research in satellite altimetry.

Expected Outcome

After completion of the workshop participants will be familiarized with the satellite altimetry and its applications for monitoring of lake, reservoir volume and water level, stage-discharge of rivers and hydrological modelling.

Workshop Registration

- Course updates and other details will be available on URL- <http://www.iirs.gov.in/Edusat-News/>.
- All the participants has to register online through registration page available on above web page link.

How to Attend Workshop

- Individuals can attend the course live via any web browser through the e-class portal of IIRS, Dehradun i.e. <https://eclass.iirs.gov.in>
- The participants can also attend the live workshop via the YouTube channel of IIRS i.e. <https://www.youtube.com/user/edusat2004>

Contact Details

Dr. Praveen K. Thakur
Course Director
WRD, IIRS Dehrdaun
Tel: 0135-2524166
Email: praveen@iirs.gov.in

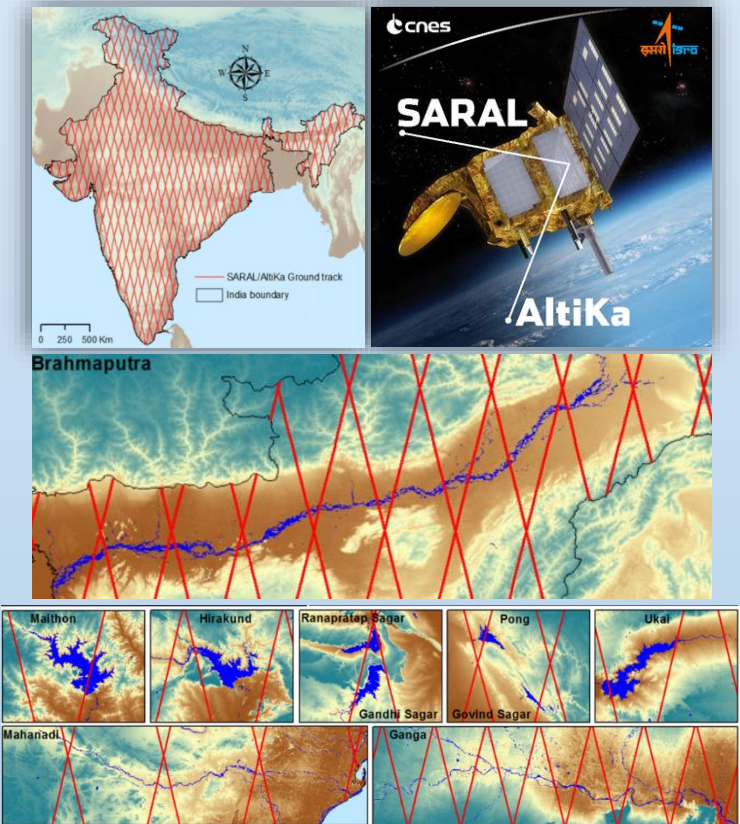
Dr. Poonam S Tiwari
Programme Coordinator
IIRS Outreach Programme
Tel: 0135-2524334
Email: poonam@iirs.gov.in

Mr. Pankaj R. Dhote
Course Coordinator
WRD, IIRS Dehradun
Tel: 0135-2524169
Email: pdh@iirs.gov.in

IIRS DLP Team
Mr. Janardan Vishwakarma
&
Mr. Ashok Ghildiyal
Tel: 0135-2524130
Email- dlp@iirs.gov.in

IIRS Outreach Programme

One Day Workshop on Applications of Satellite Altimetry for Inland Waterbodies October 27, 2021



Organised by

Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Govt. of India
4 Kalidas Road, Dehradun 248001

www.iirs.gov.in

IIRS Outreach Programme

One day workshop on

“One Day Workshop on Applications Satellite Altimetry for Inland Waterbodies”

October 27, 2021

Time	Lecture	Expert/Faculty
10.00 – 10.15	Inaugural session: Introduction to workshop, IIRS, DLP	Director IIRS, Dean Academics, GHs/HoDs, WRD Faculty, SAC-ISRO Expert
10.20 - 11.15	L-1: Basics of altimetry	Dr. Neeraj Agarwal SAC-ISRO
11.20 – 12.15	L-2: Altimetry for inland hydrologic studies with focus on advanced satellite altimetry measurement techniques and SWOT mission	Dr. Praveen K. Thakur WRD, IIRS, ISRO
12.20 - 13.15	L-3: Satellite altimetry-based case studies for inland water bodies – Part 1 (Reservoirs and lakes)	Dr. Vaibhav Garg WRD, IIRS, ISRO
13.15 - 13.55	Lunch break	
14.00 - 14.55	L-4/Demo: Satellite altimetry-based case studies for inland water bodies – Part 2 (Rivers)	Mr. Pankaj R. Dhote WRD, IIRS, ISRO
14.55-15:10	Tea break	
15.10- 15.30	Panel Discussion & feedback	All experts