

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

Palaeochannels are remnants of rivers or stream channels that flowed in the past and have been currently filled or buried by younger fluvial sediments. Paleochannel studies can provide an insight into past floodplain activities, paleoclimatic conditions, and estuarine and alluvial depositional responses prior to sea-level changes. There are a number of techniques for detecting palaeochannels with each of them having its own intrinsic advantages and disadvantages. Remote sensing-based approaches comprises of high-resolution optical, microwave and thermal datasets, LiDAR derived elevation map and Geophysical techniques like Ground-penetrating radar (GPR). The workshop will focus on use of geospatial technology in paleo channel identification.

Workshop Outline

The workshop will cover following topics related to utilisation of geospatial technology for paleochannel studies:

- Remote Sensing of Paleochannels: An Overview (Dr. R.P.Singh)
- Detection of buried paleochannels, reconstruction of drainage network to unravel the missing link with active tectonics (Dr. R. S. Chatterjee & Dr. Suresh Kanujia)
- Microwave Remote Sensing of Paleochannels (Dr. A.S. Rajawat)
- Integrated study of Saraswati Paleochannels using Space to Ground sensors (Dr. B.K. Bhadra)
- A Glimpse into discharge characteristics of lost Saraswati river (Dr. Gaurav Kumar)

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 paleo channel studies, Ground water studies, Geological and Archeological studies; students and researchers aligned to research in these areas.

Expected Outcome

After completion of the workshop participants will be familiarized with different applications of geospatial technology in identification of paleochannels and will also get to know the future research scope in the area.

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

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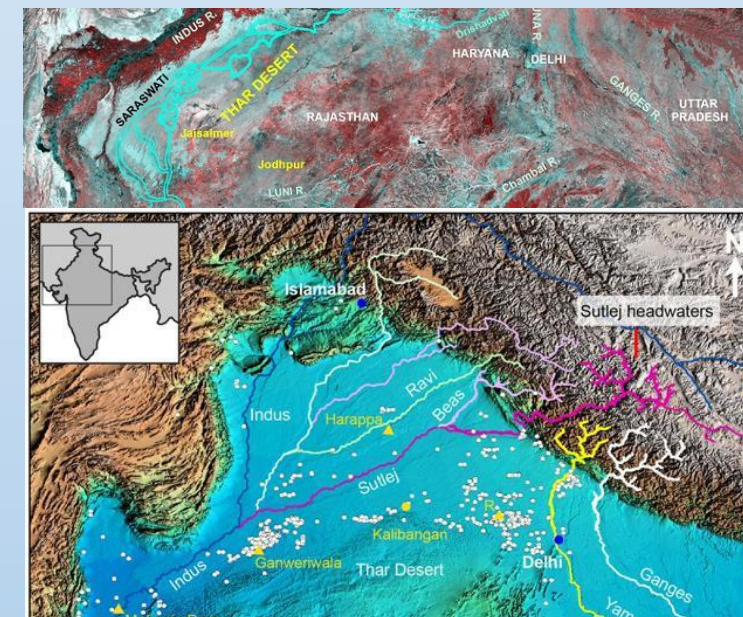
IIRS Outreach Programme

One Day Workshop

on

Applications of Geospatial Technology in Paleochannel Studies: Potential And Future Trends

11 October, 2022



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