

IIRS Outreach Programme

The IIRS outreach programme, which was started in 2007 with 12 Universities/ Institutions has now grown substantially to 3400+. The beneficiaries of the programme may include:

- Central/State/Private Universities & Academic Institutions
- Central & State Government Departments
- Forest Resource Professionals
- State Forest Departments/Forest Training Academies
- Research Institutes
- Geospatial Industries
- NGOs

About IIRS

Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organisation (ISRO), Department of Space, Govt. of India is a premier Training and Educational Institute set up for developing trained professionals in the field of Remote Sensing, Geoinformatics and GNSS Technology for Natural Resources, Environmental and Disaster Management. Formerly known as Indian Photo-interpretation Institute (IPI), founded in 1966, the Institute boasts to be the first of its kind in entire South-East Asia. While nurturing its primary endeavour to build capacity among the user community by training mid-career professionals, the Institute has enhanced its capability and evolved many training and education programmes that are tuned to meet the requirements of various target groups, ranging from fresh graduates to policy makers including academia. IIRS also conducts e-learning programme on Remote Sensing and Geo-information Science (<http://elearning.iirs.gov.in>).

Forestry and Ecology Department

Forestry and Ecology Department (FED) is the oldest department of IIRS, established in 1966 with the aim of providing training and skill development on the utility of aerial photography for forest mapping, resources inventory, monitoring and resource management for forest managers in particular and scientific community in general. The scope and activities of the Department have evolved and enlarged over the years keeping pace with technological advancements. FED strives to achieve excellence and remain in the forefront for research and capacity building in RS and GIS applications in forestry and ecology. The Department has a history of very strong research group contributing to the methodology development and execution for various nation-wide research projects for forestry sector in the country.

Contact Details

Workshop Organisers

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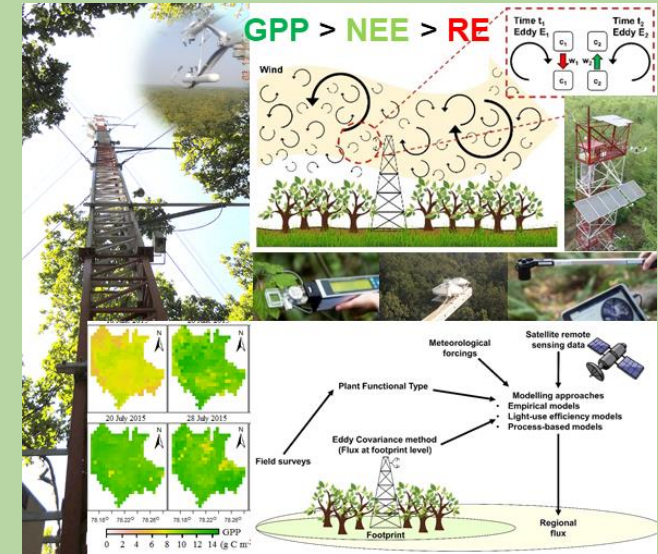
IIRS DLP Team

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IIRS Outreach Programme



One-day Workshop
on

Eddy Covariance Technique for Ecosystem Studies

Date: December 22, 2023



Organised by

Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Govt. of India
Dehradun

www.iirs.gov.in

About the Course

Eddy covariance (EC) is a micrometeorological method currently popular for direct observation of the exchange between ecosystem and atmosphere in terms of gas, energy, and momentum. The first EC tower in India was established in 2009 by the Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun in a mixed forest plantation of Terai Central Forest Division, Uttarakhand province in collaboration with the University of Tuscia, Italy under ISRO Geosphere-Biosphere Programme-funded National Carbon Project (NCP). Since then the EC system has expanded across ecosystems throughout the country by different institutions.

Remote sensing (RS) data, through the availability of repetitive spatial information, facilitates the mapping and monitoring of ecosystem dynamics and also provides means for the upscaling of site-level observations to the landscape level. The robust datasets obtained from the EC flux systems have been used in combination with RS data and various modelling approaches to estimate the spatial variability of the carbon and water fluxes. Such information aids policymakers and conservationists in designing effective strategies for ecosystem preservation and restoration.

Hence, we invite you to attend this online one-day workshop on "Eddy Covariance Technique for Ecosystem Studies". The workshop is scheduled for December 22, 2023. It will comprise lectures related to various aspects of the utility of EC technique in ecosystem study. The lectures will be delivered by experts from the leading centres of ISRO and other national organisations followed by a panel discussion.

Overview of Program

The course is conducted through IIRS outreach facility. IIRS has successfully conducted 163 courses so far through its outreach programme with 7,34,239 participants from 3400+ Institutions/Universities spread across India.

Objective of the Course: To familiarize the ecologist, forest managers, academicians, and researchers on the utility of Eddy Covariance Technique for Ecosystem Studies.

Course Content: Eddy Covariance data processing, flux partitioning, gap filling; Carbon and energy exchange of different ecosystems; Diurnal to inter and intra-annual pattern of carbon and energy flux; Assessment of spatio-temporal pattern of vegetation carbon and water exchange using satellite-based, LUE and process-based models.

Target Participants

The course is designed for Professionals, researchers and students (at least Graduate) engaged in the field of Forest Management, Conservation, Vegetation Ecology, Environmental Studies, Geospatial Technology and Modelling.

Registration Fee

There is no registration fee.

Course Registration

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

Award of Certificate

All the participants who attend the programme through e-class portal will get a e-certificate for participation.

Programme Reception

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>.

Important links

Courses updates and other details will be available on URL – <https://www.iirs.gov.in/EDUSAT-News>

To participate in this programme the interested, organisations/universities/departments/institutes have to identify coordinator at their end. The identified coordinator will register online his/her institute as nodal centre in IIRS website (<https://elearning.iirs.gov.in/edusatregistration/coordinator>)

All the participants have to register online through registration page by selecting his/her organization as nodal centre on below link: <https://elearning.iirs.gov.in/edusatregistration/student>

There are limited number of seats. Registration will be done on first come first serve basis