



Dehradun Chapter



Special Training Course on

Satellite Observations and Products for Agro-meteorological Applications

December 1–5, 2014

Organized by : Indian Institute of Remote Sensing (ISRO)
under the aegis of Indian Meteorological Society (IMS-DC)

Background

Satellite data and products play a key role into the development of agrometeorological information and provision of effective services on drought monitoring, food security and other weather related agro-advisory services. Over the years, India have been benefited from rainfall estimations, vegetation monitoring, soil moisture monitoring and early prediction of crop output. From the beginning of the eighties, polar orbiting and geostationary satellites over the world have provided data and products to estimate rainfall, air temperature, vegetation cover, radiation and other land surface properties.

Although multi-faceted applications operationalized for natural resource management and weather related services, Indian Space Research Organisation and India Meteorological Department are making tireless effort to continually evolve better products and services in agrometeorology based on satellite observations from earth resource and meteorological satellites. Satellite information combined with seasonal weather forecast, crop models and geographical information systems have been emerging as decision making tools to support early warning applications (drought, food, pests/diseases etc) and evolution of regional agrometeorological information system.

There has been growing interests among agricultural and meteorological scientific community as well as weather related service providers on the use of satellite observations for agricultural monitoring and decision making. However, academic institutions, research agencies and other users facing challenge of creating usable products and services based on satellite observation that helps to make contingency planning and support requirement of villagers for the agro communities.

Since Inception of IMS Chapter Dehradun in 2012, Indian Institute of Remote Sensing has organised two short training on potential of Satellite Observations and Geospatial Technology for Meteorological Modeling and Climatological Applications. These courses have received overwhelming response from all parts of the country. One of the TROPMET 2012 recommendations was capacity building in the area of RS & GIS applied to atmospheric and climatic domains. In view of this, a one week course on applied theme of meteorology i.e., satellite agrometeorology is being organised by IIRS in association with Indian Meteorological Society. The training programme will include lectures and hands-on experience with data.

Objectives

- Expand the use of satellite derived information in agro-advisory and weather related hazard services
- Development of capacity building for generating satellite based agrometeorological information from earth resource and meteorological satellites

Target group

The short training course will provide forum for agrometeorologists, meteorologists, technologists, educators and young researchers and weather related service providers in India to strengthen their horizon of agrometeorological research and enhance their ability to integrate satellite observations with conventional agrometeorological observations and modeling expertise.

Expected outcome

- Promote use of multi-source data and products from meteorological satellites by meteorological and agricultural scientific community
- Capacity building of institutions involved developing regional agrometeorological Information system and national early warning systems for agricultural hazards
- Strengthening research collaboration and partnership among various institutions
- Promote data and information dissemination through web-portal



Duration : One week

Brief overview of the lectures

The course will have theory classes and practical exercises. The major topics to be covered are

- Basics of satellite remote sensing
- Satellite agrometeorology
- Agromet Services and Early Warning Applications
- Earth science data portals for climate services

Venue

Indian Institute of Remote Sensing (ISRO), Kalidas Road, Dehradun

Course Fee : The course fee is Rs. 2000/- per participant for Govt. Sponsored Research Departments & Rs. 1000/- per participant for university faculty and research students. The fee is to be sent in advance by DD drawn in favor of Accounts Officer, IIRS payable at Dehradun.

Contact details: Dr. N. R. Patel, Course Coordinator & Scientist, Indian Institute of Remote Sensing (IIRS) & Ms. Charu Singh, Scientist, Indian Institute of Remote Sensing, ISRO, 4 Kalidas Road, Dehradun-248001, Uttarakhand, India

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Important Dates

- ❖ The course will commence on Dec. 1, 2014 and will end on Dec. 5, 2014.
- ❖ Last date to apply for the course is Nov. 25, 2014.

Accommodation

Non-AC accommodation on sharing basis, will be provided at IIRS campus at nominal charges

How to apply: The aspirant participants may send their completed application forms by filling online form, made available through IIRS website (www.iirs.gov.in). Print the filled form, sign and send it by post/email.

Note: The total numbers of seats available are 30 (maximum) and admission will be considered on first come first -served basis. Applicants are encouraged to apply online or by e mail so as to reach us as early as possible.

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