



Training programme on “Operational Agrometeorology for serving end users requirement”

Agricultural Meteorology Division, India Meteorological Department (IMD), Ministry of Earth Sciences, Government of India in collaboration with the World Meteorological Organization (WMO) is organising two weeks training programme from 28th January to 9th February 2013 on “Operational Agrometeorology for serving end users requirement” for capacity building in the agriculture sector of the Global Framework for Climate Services (GFCS). The training is specially designed for the professional in East African (Burundi, Ethiopia, Kenya, Rwanda, Tanzania, Asian participants (Bangladesh, Maldives, Myanmar, Sri Lanka, and Thailand). The training would be hosted at Pune, Maharashtra, India. Ideally the training would draw upon those scientists working in operational Agro-Meteorological Advisory Services and those provide climate/ weather information products and services, preferably professional staff of National Meteorological and Agrometeorological Services and a range of professionals working on farm management and design issues where weather and climate data is relevant.

Background & Purpose

Under the framework of operational agrometeorology, the Agromet Advisory Services (AAS) provide a very special kind of inputs to the farmer as advisories that can make a tremendous difference to the agriculture production by taking the advantage of benevolent weather and minimize the adverse impact of malevolent weather. This has a potential to change the face of any country in terms of food security and poverty alleviation. Agrometeorological services in developing countries have to shoulder greater responsibilities due to larger population pressure and changing modes of agricultural practices. More and more demands pertaining to agrometeorological information and services would be coming from the farming communities in the future on technologies, farming systems patterns and practices including multiple cropping, water management, weather based pest and disease control etc. preferably with local innovations as starting points. Thus, the future challenges include the necessity to emphasize a bottom up approach so that forecasts, specific advisories and contingency planning serve even the small farmers for applications in their planning and day-to-day agricultural operations. As training is one of the key elements for constant improvement in the service, it should form an integral part of the system. Organization of periodic training programs for scientists, extension workers, media and farmers at appropriate levels to sharpen the service. Skill improvement of all concerned in the area for understanding the weather processes and their impact on crops/animals should form the integral part of HRD process. Regular updating of knowledge on crop/pest disease simulation, GIS, use and interpretation of remote sensing data for agromet purpose are equally important area for training the manpower working for AAS.

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Objectives

- ✓ To develop human resource in operational AAS.
- ✓ To develop understanding of intricacies of location specific weather forecasting to prepare agro-advisories as per need of the farming community.
- ✓ To enrich quality content of crop & location specific advisories.
- ✓ To interpret forecast in a better way towards locating specific advisories depending on on-going agricultural operations.
- ✓ To utilize agromet products/data in a better way while preparing advisories

Agenda

The two weeks course includes lectures and practical exercises including field trip. The lecture would be delivered on the following areas:

- General meteorology and weather forecasting –(synoptic meteorology, climatology & seasonal aspects)
- Basic Numerical Weather Prediction (NWP)
- Meteorological Instruments, observations and network
- Agrometeorological data processing and drought study
- Crops, their agro-climatic requirements, irrigation scheduling and crop simulation modelling
- Advisory services for the benefit of farmers
- Livestock, pests and diseases and remote sensing
- Extreme weather events, impact of climate change on agriculture
- Interactive session / Group discussion / presentations by trainees on case studies from their zone
- Field trip would also be arranged to show practical demonstration of use of agromet advisories by the farming community.

In Brief

Training Date.

28.01.2013 to 09.02.2013

Organizers.

India Meteorological Department
World Meteorological Organization

Accommodation.

Accommodation would be arranged at guest house of India Meteorological Department, Pune, India.

For updated information, please visit.

<http://www.imdagrimet.gov.in>

Training venue

Meteorological Training Institute,
India Meteorological Department,
Dr.Homi Bhabha Road, Pashan,
Pune, Maharashtra, 411008

