

# Training on Basics of Satellite Meteorology



## Satellite Meteorology

Satellite meteorology refers to the study of the earth's atmosphere using data collected by remote sensing instruments flown on board artificial satellites orbiting the earth. For studying earth's atmosphere and predicting its future, precise measurements of the atmospheric parameters are important. Unlike the in-situ instruments, remote sensing instruments obtain information of the meteorological parameters without coming in to physical contact. Artificial satellites equipped with remote sensing instruments monitor the state of the atmosphere continuously from space. These are called weather or meteorological satellites. They are generally launched in to geostationary and polar orbits.

Geostationary meteorological satellites orbit the earth at an altitude of 36,000 km and remain stationary with respect to the rotating earth. It can continuously monitor the entire hemisphere below it. The United States (GOES Series), Japan (Himawari), European Union (Meteosat series), India (INSAT Series) and China (Fengyn series) operate geostationary meteorological satellites. They provide meteorological data with high temporal resolution.

Polar meteorological satellites orbit the earth at low earth orbits (about 850 km) and circles from pole to pole. The United States (NOAA series), Europe (Metop Series), Russia (Meteor/RESURS series), India and China operate meteorological satellites in polar orbit. They provide meteorological data with better spatial resolution.

## Training on Satellite Meteorology

Satellite Meteorology and Oceanography Research and Training (SMART) programme of Space Applications Centre, Ahmedabad is organising a training programme on 'Basics of Satellite Meteorology'. This training programme aims to generate awareness about satellite meteorology among students, researchers and faculty members who are interested to start a carrier in this field. This training programme will cover basic concepts of satellite meteorology, satellite image interpretation, different meteorological parameters provided by satellites, basic concepts of parameter retrieval, validation methodologies, MOSDAC satellite data portal and potential meteorological applications of satellite data.

## Details of the Training Programme

Course Date	12-16 February 2018
No. of participants	20
Target Group	Students, JRFs, Post-docs, early carrier researchers, faculties, etc., affiliated to recognised Universities and research institutions.
Pre-requisite	Prior knowledge on meteorology is required. Working knowledge of Linux, Fortran/Python/GrADS.
Last date to apply	Filled-in application must reach on or before 10 January 2018.

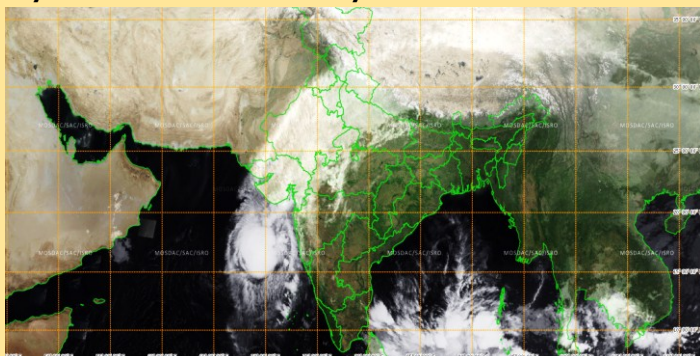
Training programme consists of lectures in the forenoon by eminent scientists working in Space Applications Centre, ISRO followed by hands-on familiarisation with satellite meteorological data in the afternoon. Participants will be provided subsidised paid accommodation at SAC guest house on twin sharing basis. No fee will be charged for attending the training. No TA/DA will be provided for attending the training. Participation certificates will be provided after the completion of training. Only selected candidates will be informed.

*Interested may send the filled-in application form to:*

Dr. V. Sathiyamoorthy  
Head, MRTD/MRG  
Space Applications Centre (ISRO)  
Bopal, Ahmedabad - 380058  
Phone: 079-26916112 Fax: 079-26916127  
Email: sathya@sac.isro.gov.in

For further details please visit our website

### Cyclone Ockhi as viewed by INSAT-3D on 4 Dec. 2017



Cyclone Ockhi originated as a depression off southeast coast of Srilanka, touched Kanyakumari and finally crossed Gujarat coast on 05 December 2017. Many died and many fishermen from Tamilnadu and Kerala could not be traced. It is one of the costliest cyclone in Indian Ocean in recent history.

Space Applications Centre, Ahmedabad  
Application for *SMART* Training Programme

**Basics of Satellite Meteorology**

STP-01/2018

*(Please type or write in CAPITAL Letters)*

Name Dr./Mr./Ms/.....

Date of Birth (DD/MM/YYYY) .....

Gender (Male/Female) .....

Correspondence Address .....

Pin code .....

Email .....

Phone .....

Designation .....

Educational Qualification .....

*(include percentage of marks and specialization)* .....

Do you have prior knowledge of Meteorology? Yes / No

How this training programme will be useful to your studies/research work .....

Signature of the applicant with date .....

Recommendation from Head of the Department or Institution with seal .....

*Last date to receive the completed application is 10 January 2018*