

Scatterometry

Scatterometer is an active microwave sensor that transmits microwave signal and precisely measures the backscattered energy from surface targets. The amount of backscattered energy is dependent on surface roughness and the angle at which microwave energy strikes the surface. Scatterometer measurements over the oceans are used to measure near-surface wind speed and direction based on the sea-surface roughness. Scatterometer derived sea-surface winds are useful for forecasting weather & cyclogenesis, air-sea interaction studies, monsoon studies, process studies, etc. Scatterometer data are also useful to study cryosphere and soil moisture. Being a microwave payload, scatterometer has the ability to see through the clouds and has all-weather sensing capability.

Indian Space Research Organisation (ISRO) launched its first scatterometer onboard Oceansat-2 satellite on 23 September 2009 from Sriharikota. It provided good quality wind data until February 2014. Oceansat-2 scatterometer (OSCAT) winds were assimilated in to operational weather forecasting models of NCMRWF and ECMWF in real-time. OSCAT data were widely used for atmospheric, oceanographic, cryospheric and terrestrial studies. In continuation of OSCAT, ISRO is launching another scatterometer, ScatSat-I in September 2016.

Training on Scatterometry

SMART programme of Space Applications Centre, Ahmedabad is organising a training programme on 'Introduction to Satellite Scatterometry with a special emphasis on ScatSat-I'. This training programme aims to generate awareness about upcoming ScatSat-I mission and scientific potential of ScatSat-I data among students, faculties and researchers from across the country.

Details of the Training Programme

Date	19-21 October 2016
Number of participants	20
Target Group	Ph.D students, Post-docs, early career researchers, faculties, etc., affiliated to recognised Universities and research institutions working in the field of Atmospheric science, Oceanography, Cryosphere and Land studies interested to explore the Indian Scatterometer data for their research and studies.
Prerequisite	Working knowledge of Linux, shell scripting, Fortran/C/C++ and GrADS.

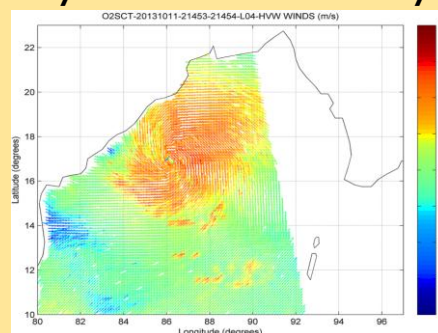
Training programme consists of forenoon lectures by eminent scientists working in ISRO's scatterometer project followed by hands-on with OSCAT/ScatSat-I data in the afternoon. Participants will be provided subsidised paid accommodation at SAC guest house on twin sharing basis. No fee will be charged for attending the training. No TA/DA will be provided to attend the training. Participation certificates will be provided after completion of the training.

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: 079-26916075
Email: sathya@sac.isro.gov.in

For further details please visit our website
<http://mosdac.gov.in/smart>

Tropical Cyclone Phailin as viewed by OSCAT





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Space Applications Centre, Ahmedabad

Application for SMART Training Programme

Introduction to Satellite Scatterometry with a special emphasis on ScatSat-1

STP-01/2016

(Please type or write in CAPITAL Letters)

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

Date of Birth (DD/MM/YYYY)

Gender (Male/Female)

Contact Information

(include Email, Phone, Fax details)

Designation

Educational Qualification

(include percentage of marks and specialization)

Do you have working knowledge of Linux, shell scripting, Fortran/C/C++ and Grads 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 15 September 2016