

Earth Ecosystem Research and Training Division (ERTD)
VEDAS Research Group (VRG), EPSA/SAC

“Agricultural Applications using Space Based Observations”

Date: 05-09 February, 2018

Training and Research in Earth Eco-system (TREES)

A Five-days training programme was conducted on “**Agricultural Applications using Space Based Observations**”. The training programme was attended by 20 participants from 13 institutes / organisations from all over country.



Overall 10 lectures covering various aspects of Satellite based Agricultural Applications and allied sectors were delivered. The lectures on remote sensing covered Basic principles of Remote Sensing and its broader Applications, Crop statistics, Agro-meteorological applications and fodder crop assessment for Dairy development were delivered. Specific Applications of remote sensing of SAR and Hyper Spectral data for Agriculture, Microwave applications with special reference to SMAP & RISAT-1.

Besides Optical and SAR, lectures on Regional crop yield modelling Geospatial applications in allied sectors and Horticultural and crop insurance applications were covered.

Three Tutorial / Hands on exercise of Twelve hours on crop classification, crop yield modelling, Hyper Spectral data analysis and Tutorial on VEDAS & MOSDAC products - analysis. In addition, Field visit to Navagam Research Station, - Anand Agri. University for demonstration and handling of ground-based RS instruments – Hyper spectral

Imager, Thermal Imaging Cameras and Spectro - Radio meter and use of GPS for field data collection utilities were covered.

Feedback received was encouraging, many of participants showed interest to work with SAC/ISRO collaborative projects and students wanted to be part of TREES Research Programme.