



TREES Training on “*Satellite based Hydrology and Modelling*”

Earth Ecosystem Research and Training Division (ERTD)
VEDAS Research Group (VRG), EPSA, Date: 02-11 May, 2018



A Ten-day training programme was conducted on “**Satellite based Hydrology and modelling**”. The training programme was attended by 30 participants from 15 institutes / organisations from all over country.

Overall 26 lectures covering various aspects of Satellite based hydrology and modeling were delivered. The lectures on remote sensing covered Basic principles of Remote Sensing and its broader Applications, EPSA Activates, Image processing and GIS, Specific Applications of remote sensing for Hydrology, Satellite based rainfall estimation, Water quality monitoring, urban storm water management SACHYDRO Model on snow melting, Satellite altimetry, wetland hydrology, Ground water exploration – Sustainability, Flood Assessment, Glacier lakes outburst, Isotope Hydrology and Snow hydrology were covered.

Besides Hydrology, applications for Satellite derived DEM extraction, Satellite Based Drought assessment were included addressing potential research areas. The basic Geographic Information System (GIS), its applications were also covered. ET tools and techniques were addressed. More than Twenty-Five hours of Tutorial / Practical's on Image processing, GIS, ground water Resource development, water quality, Altimetry, Snow Glacier Monitoring, Wetland Inventory and Hydrological modeling was also devoted so that participants can appreciate the theoretical aspects covered.

Field visit to Nal Sarover RAMSAR site, was conducted. Participants were explained how to interpret and link satellite images with actual ground Reality-Data. They were demonstrated to use field equipment's for various measurements of relevant parameters

The participants highly appreciated the course content and its presentation. The feedback received was encouraging; most of participants wanted to be part of research programme.

The participants were given certificates by Dr. Raj Kumar, DD-EPASA.