Forest Fire Training for Mexican Officials
Preliminary Programme

Lectures (02 Nos. per day):

1. Forest Type and Density mapping & monitoring using EO data
2. Fire Ecology and biodiversity loss due to forest fires.
3. Remote Sensing data processing and classification routines for forest fire
4. Active Forest-fire detection from LEO sensors (MODIS/SNPP-VIIRS)
5. Active forest fire detection using GEO-sensors (INSAT-3D/3DR).
6. Forest burnt area mapping using multi-spectral satellite data
7. Indices for burnt area mapping
8. Dynamic Forest Fire risk modelling for early warning
9. Air Quality issues due to forest fires.

Hands on/ Practical & Demonstration

1. Vegetation type mapping & NDVI for forest density classification
2. Active fire extraction from MODIS data and INSAT 3D/DR data/Mobile app for forest fire reporting
3. Burnt area mapping of forest fires
4. Dynamic forest fire modelling

2 lectures each day followed by Demonstration & Hands on session.

Required Qualification and Experience:

- Basic knowledge of forestry
- Basic understanding of Remote Sensing & Geospatial sciences tools and techniques:
- Working Knowledge on Image-processing & GIS software (Q-GIS, Arc GIS, ERDAS Imagine, ENVI, etc.)