

Introduction to Remote Sensing

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Aim:

To introduce concepts of satellite remote sensing including processing, downloading and visualizing earth observation data.

Content

This lecture provides an introduction to remote sensing, and hands-on practical exercises to processing, downloading, and visualizing large volume of geospatial data in Google Earth Engine platform. Specifically, we will cover:

- o Definitions of remote sensing
- o Electromagnetic spectrum
- o Types of resolutions in remote sensing
- o Active and passive sensors
- o Earth observation satellites
- o Remote sensing data access
- o Remote sensing applications

Software and key packages:

- o Google Earth Engine

Resources Links

<https://earthengine.google.org>

<http://earthexplorer.usgs.gov/>

<http://glovis.usgs.gov/>

https://lpdaac.usgs.gov/data_access/data_pool

<https://search.earthdata.nasa.gov/>

<http://gdex.cr.usgs.gov/gdex/>

<http://fas.org/irp/imint/docs/rst/Front/overview.html>