

Workshop on Forest Cover Mapping in Google Earth Engine

Training dates: December 3rd and 4th, 2018

Training objectives

This workshop will provide hands-on experience with Google Earth Engine for accessing and analyzing datasets to map annual, nation-wide tree cover across Nepal. We will introduce the cloud-based Google Earth Engine (GEE) platform for Big Data remote sensing analysis and discuss the new 25-year Nepal tree cover/change dataset. For comparison, we will also discuss access and use of the Hansen et al. global forest cover dataset. No programming experience is required but participants must have their own laptop computer and sign-up for an individual Earth Engine account at <https://earthengine.google.com>.

Trainers

- Dr. Jamon Van Den Hoek (Oregon State University, vandenhj@oregonstate.edu)
- Dr. Kaspar Hurni (University of Bern, kaspar.hurni@cde.unibe.ch)
- Alexander Smith (Oregon State University, smitale3@oregonstate.edu)

Workshop schedule

December 3 – Forest cover products and Google Earth Engine

09:00-10:30am	Introduction to Google Earth Engine
10:30-10:45am	Break
10:45-12:00pm	Calculating, visualizing, and exporting Nepal forest cover products
12:00-01:00pm	Lunch
01:00-03:00pm	Analyzing Nepal forest statistics with socio-economic data
03:00-03:15pm	Break
03:15-04:30pm	Working with the Hansen global forest cover product
04:30-05:00pm	Questions and feedback

December 4 – Satellite image analysis in Google Earth Engine

09:00-10:30am	Exploring, visualizing, and analyzing satellite data in GEE
10:30-10:45am	Break
10:45-12:00pm	Satellite image topographic illumination correction
12:00-01:00pm	Lunch
01:00-03:00pm	Supervised classification and accuracy assessment
03:00-03:15pm	Break
03:15-04:15pm	Sharing your EE visualization
04:15-05:00pm	Questions and feedback

For details: <http://sari.umd.edu/meetings/international-meeting-twenty-five-years-community-forestry-mapping-tree-dynamics-middle>