Advanced Webinar: Creating & Using Normalized Difference Vegetation Index (NDVI) from Satellite Imagery

Wednesdays, February 10 – March 2, 2016
12:00 – 1:00 p.m. EST (UTC-5)

In this advanced webinar, participants will learn how to acquire, use, and derive NDVI imagery from Landsat and MODIS. Weekly webinars will include lectures, hands-on demonstrations of exercises, and written instructions on how to conduct the exercises. The exercises will use QGIS, a cross-platform open source GIS application. Each session will guide participants through the exercises, however to achieve the course learning objectives, participants should expect to spend additional time outside the webinars. There will be homework to complete after each exercise, which is required to be eligible for a completion certificate.

Session One: NDVI & QGIS
February 10, 2016
An overview of NDVI and an introduction to QGIS.

Session Two: Deriving NDVI from Landsat
February 17, 2016
Acquiring a Landsat image and deriving NDVI from Landsat using QGIS.

Session Three: MODIS NDVI Time Series
February 24, 2016
An overview of MODIS NDVI, a demonstration of the MODIS/NDVI Time Series Database from the Global Agriculture Monitoring (GLAM) Project, acquiring MODIS NDVI images, and how to create a time series from MODIS NDVI.

Session Four: MODIS NDVI Anomalies
March 2, 2016
An overview of MODIS NDVI anomaly mapping, a demonstration of the GIMMS MODIS Agricultural Monitoring System, and how to create a MODIS NDVI anomaly map.