

Applications of Remote Sensing to Soil Moisture & Evapotranspiration

Thursdays, September 1-29, 2016

11:30 a.m.-12:30 p.m. and 6:00-7:00 p.m. EDT (UTC-4)

Previous ARSET trainings focused on water resources have mainly addressed remote sensing measurements of precipitation and their applications. But precipitation is only one component of the water cycle. NASA's Soil Moisture Active Passive (SMAP) Satellite Mission is now providing new soil moisture data, and modeling frameworks are providing new evapotranspiration data. This webinar series will help attendees learn about NASA soil moisture and evapotranspiration products and how to access and apply them for water resource management. Over the course of five weeks, attendees will learn how to monitor and manage water resources with techniques learned in training. The series will begin with an introduction to satellite missions and useful data sets. Next, trainers will demonstrate online portals for accessing data. The series will conclude with specific examples of how you can apply the data and modeled data products.

Session One: Introduction to Soil Moisture and an Overview of the Soil Moisture Active Passive (SMAP) Satellite Mission

September 1, 2016

Session Two: Applications of SMAP Data

September 8, 2016

Session Three: Accessing SMAP Data

September 15, 2016

Session Four: Landsat-based Evapotranspiration Estimates (METRIC) and Google Earth Engine Evapotranspiration Flux (EEFlux) Portal

September 22, 2016

Session Five: MODIS-based Evapotranspiration (ALEXI) and Soil Moisture and Evapotranspiration data from GLDAS/NLDAS

September 29, 2016