National Aeronautics and
Space Administration

Advanced Webinar: SAR for Landcover Applications

August 28 and September 4

10:00-12:00 EDT (UTC-4)

This webinar series will build on the knowledge and skills previously developed in ARSET SAR trainings. Presentations and demonstrations will focus on agriculture and disasters applications. Participants will learn to characterize floods with Google Earth Engine. Participants will also learn to analyze synthetic aperture radar (SAR) for agricultural applications, including retrieving soil moisture and identifying crop types.

Part One: Monitoring Flood Extent with Google Earth Engine

This session will focus on the use of Google Earth Engine (GEE) to generate flood extent products using SAR images from Sentinel-1. The first third of the session will cover basin principles of radar remote sensing related to flooded vegetation. The remaining time in the session will be dedicated to a demonstration on how to use GEE to generate flood extent products with Sentinel-1.

Part Two: Exploiting SAR to Monitor Agriculture

Featuring guest speaker Dr. Heather McNairn, from Agriculture and Agri-Food Canada, this session will focus on using SAR to monitor different agriculture related topics, building on the skills learned in the SAR agriculture session from 2018. The first part of the session will cover the basics of radar remote sensing as related to agriculture. The remainder of the session will focus on the use of SAR to retrieve soil moisture, identify crop types, and map land cover.

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