

Introduction to Synthetic Aperture Radar

June 28-29 and July 5-6, 2017
12:00 – 1:00 p.m. or 9:00 – 10:00 p.m EDT (UTC-4)

A limitation of optical satellite remote sensing is that it depends on cloudless, well-illuminated areas to produce quality data. This is especially problematic for collecting data during nighttime, around storms, and in densely-forested areas. Synthetic Aperture Radar (SAR) is a solution to many of these obstacles. SAR can observe the Earth day and night, through most weather conditions, and the signal can penetrate the vegetation canopy. There are a number of existing SAR datasets from current and past airborne and satellite missions, as well as exciting upcoming missions. This online webinar will focus on building the skills needed to acquire and understand SAR data, as well as potential applications.

Please note that these presentations take place over the course of two weeks, on Wednesdays and Thursdays.

Basics of Synthetic Aperture Radar (SAR)

June 28, 2017

SAR Processing and Data Analysis

June 29, 2017

Introduction to Polarimetric SAR

July 5, 2017

Featuring Guest Speaker Naiara Pinto (JPL)

Introduction to SAR Interferometry

July 6, 2017

Featuring Guest Speaker Eric Fielding (JPL)