



Harnessing NISAR: Next-Generation Radar Observations for Earth Applications

July 2, 9, & 16, 2026

11:30-1:30 (English) or 14:30-16:30 (Spanish) EDT (UTC-4)

Synthetic aperture radar (SAR) data is becoming increasingly accessible through open datasets, including those from the newly launched NISAR mission. One of SAR's main advantages is its ability to observe Earth's surface by day or night and under most weather conditions, making it especially valuable in persistently cloudy regions like the tropics or in high-latitude areas with long periods of darkness.

NISAR provides a wealth of data for both scientific research and practical applications, but it can be challenging for users to interpret and apply. This course is designed to help users understand the unique characteristics of NISAR data and learn how to access, visualize, and analyze them for various scientific and applied purposes.

Session 1: An Introduction to NISAR

ARSET Instructor: Erika Podest (JPL/Caltech)

- About ARSET
- Training Overview
- Session 1 Introduction
- Section 1: NISAR Characteristics
- Section 2: Capabilities and Limitations
- Section 3: Data Products
- Section 4: Flood Case Study Using NISAR Amplitude Data
- Session 1 Summary
- Q&A Session

Session 2: NISAR Data Access and Tools

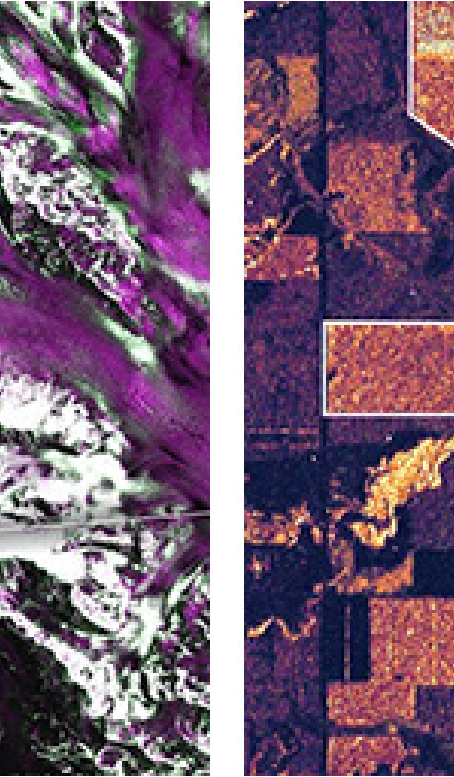
ARSET Instructor: Erika Podest (JPL/Caltech)

Guest Instructors: Franz Meyer (ASF, Univ. of Alaska, Fairbanks), Heidi Kristenson (ASF), Usha Sundari Ryali (ISRO National Remote Sensing Centre)

- Session 1 Review
- Session 2 Introduction
- Section 1: Data Availability and Accessibility
- Section 2: Data Discovery and Access
- Section 3: Using the Data
- Section 4: Tools and Services
- Session 2 Summary
- Q&A Session



ARSET empowers the global community through remote sensing training.

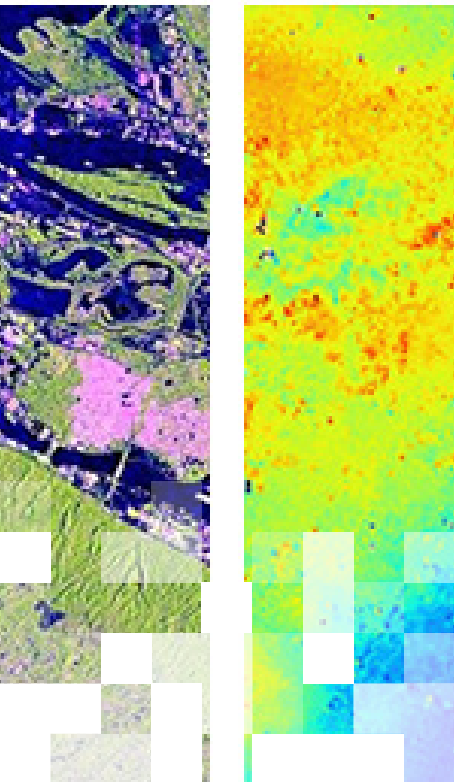


Session 3: Monitoring Earthquakes, Volcanoes, and Landslides with NISAR's InSAR Capability

ARSET Instructor: Erika Podest (JPL/Caltech)

Guest Instructor: Eric Fielding (JPL/Caltech)

- Session 2 Review
- Session 3 Introduction
- Section 1: NISAR InSAR Data Products and their Characteristics
- Section 2: Uses and Limitations of NISAR InSAR Data
- Section 3: Case Study using NISAR InSAR Data for Earthquakes and Landslides
- Session 3 Summary
- Training Summary
- Q&A Session



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