



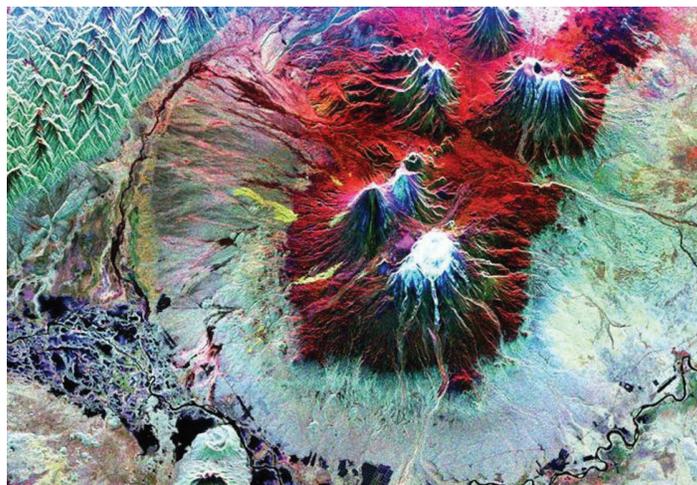
## DATA & APPLICATIONS ONLINE

# Synthetic Aperture Radar (SAR) Data

### Overview

The Alaska Satellite Facility (ASF) Distributed Active Archive Center (DAAC) specializes in synthetic aperture radar (SAR) data acquisition, processing, archiving, and distribution. The data have been collected with SAR sensors onboard a variety of spaceborne and airborne vehicles, including

- European Space Agency Copernicus Sentinel-1 satellites and European Remote Sensing (ERS-1 and ERS-2) satellites
- Japan Aerospace Exploration Agency ....
- Canadian Space Agency RADARSAT-1 satellite
- NASA Seasat and Soil Moisture Active Passive (SMAP) satellites
- NASA Airborne SAR (AIRSAR) and Uninhabited Aerial Vehicle SAR (UAVSAR)
- The ASF DAAC also hosts projects such as the Making Earth System Data Records for Use in Research Environments (MEaSUREs) Arctic and Wetlands projects and the RADARSAT-1 Antarctic Mapping Project (RAMP). SAR products from these projects can be downloaded directly from the ASF website.



### About the Data

Valuable information about the Earth's surface can be derived from the return signals of active microwave sensors (radar). Signals from SAR sensors can penetrate clouds and image in the dark, providing all-weather, day and night Earth observation capability.

The ASF DAAC provides access to a variety of SAR products, from raw data to processed imagery. Characteristics of land and sea ice, snow, vegetation, land use, and various land processes can be studied using these data. Products from the Arctic MEaSUREs project include ...

The ASF DAAC website provides access to many tutorials that explain how SAR data can be used in the Earth sciences, including interferometry and change detection.

### Data Access

Most of the SAR datasets in the ASF archive are open-access and freely available to download.

- ASF Vertex Data Search <https://search.asf.alaska.edu/>
- ASF website <https://www.asf.alaska.edu/>
- NASA Earthdata Search <https://search.earthdata.nasa.gov/search>



**Alaska Satellite Facility SAR DAAC**  
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**EOSDIS DAACs**  
ASF SAR DAAC is one of twelve NASA Earth Observing System Data and Information System (EOSDIS) Distributed Active Archive Centers (DAACs).