

UNAVCO

SAR Archives

Promoting Earth science by advancing high-precision techniques for the measurement of crustal deformation.

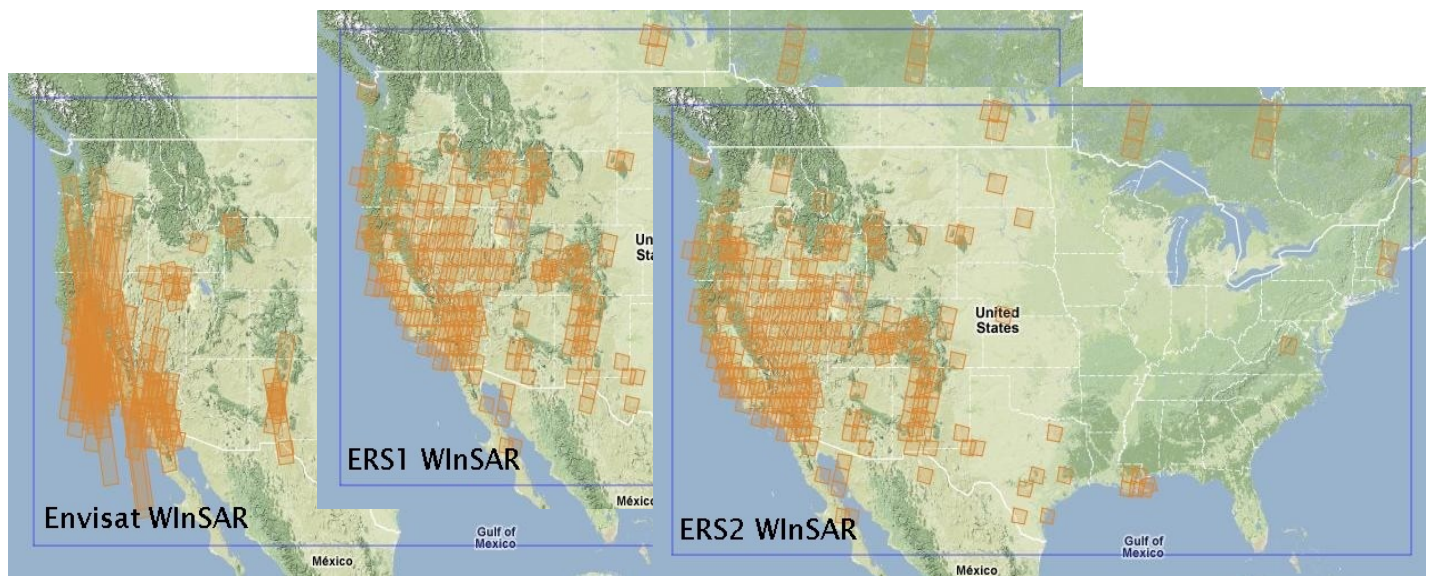
UNAVCO SAR Archives and Data Services

The technique of spaceborne Interferometric Synthetic Aperture Radar (InSAR) provides an excellent means of observing Earth surface deformation over broad areas. UNAVCO archives SAR data for InSAR processing in the WInSAR and GeoEarthscope SAR data archives. We provide data from the European Space Agency (ERS1, ERS2, and Envisat missions), and the CSA Radarsat mission.

UNAVCO WInSAR Archive

The UNAVCO WInSAR Archive is online at <http://winsar.unavco.org>. SAR data is available for approved institutions and scientists. To apply see <http://winsar.unavco.org/apply.php>. You can also request new data to be included in the archive.

The UNAVCO WInSAR archive has 1623 Envisat, 4550 ERS2, and 2040 ERS1 data files as of May 7, 2009. UNAVCO continues data acquisition for the WInSAR archive.



GeoEarthscope SAR Archive

GeoEarthscope, a part of the EarthScope Program, built a SAR archive at UNAVCO, which was completed in 2008. The GeoEarthscope SAR archive web site is at <http://geoes-insar.unavco.org>. To get data from the GeoEarthscope SAR archive at UNAVCO, first submit a Mini Category 1 proposal at http://geoes-insar.unavco.org/minicat_request.php

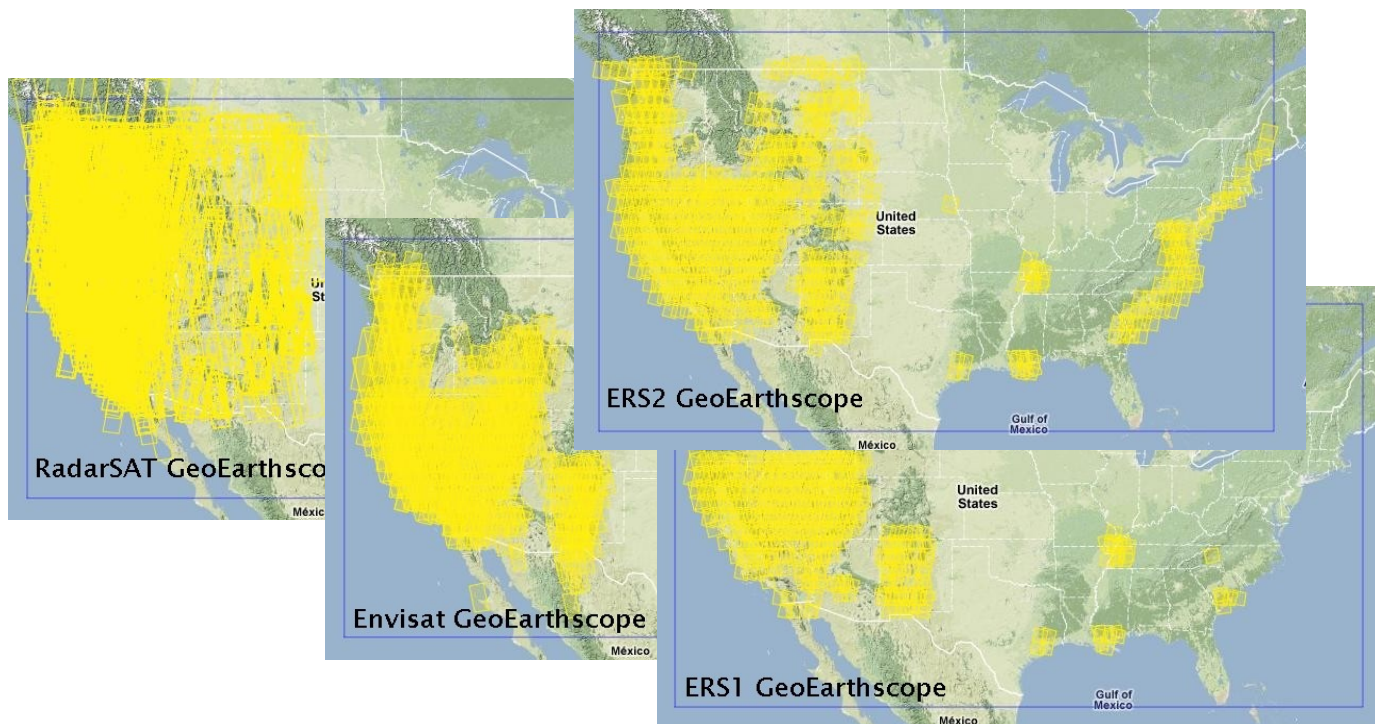
The GeoEarthscope SAR archive has 19,162 ERS2, 5041 ERS1, 4384 Envisat, and 10930 RSAT1 data files as of May 7, 2009 (39,517 total). See maps on next page.

UNAVCO Catalog of ASF PALSAR Data Pool

JAXA ALOS PALSAR data is available from from the Alaska Satellite Facility (ASF). UNAVCO SAR search tools show ALOS PALSAR scenes at ASF. There are 16408 PALSAR scenes in the UNAVCO catalog as of May 7, 2009; the UNAVCO catalog is updated most weeks.



GeoEarthscope SAR Archive Maps



UNAVCO SAR Archive Search Tools

UNVACO has three online search tools for data in the UNAVCO SAR archives. The WinSAR search tool uses entry forms to find data for download (<http://winsar.unavco.org/search.php>). This search tool can also list data files in the ASF PALSAR Data Pool. You can download KMZ files for Google Earth.

The GeoEarthscope Data Archive Search and Download tool uses entry forms to find data for download from GeoEarthscope (http://geoes-insar.unavco.org/archive_search_and_download_requests.php).

The UNAVCO SAR Archive Search Interface (<http://geoes-insar.unavco.org/sasi/sasi.php>) combines entry forms with a Google Maps interface to show SAR scene information and locations in the UNAVCO WinSAR and GeoEarthscope SAR archives, and in the UNAVCO catalog of the ASF PALSAR Data Pool.

and SAR Mission (satellite name)

Time Limits

and From: 00:00Z on Month: Day: Year:

and To: 00:00Z on Month: Day: Year:

Area Search Box

and Center Latitude (positive north)

and Center Longitude (negative west)

and Search box width & height (km)

Latitude Range Limits

and Min: Max:

Longitude Range Limits (negative west)

and Min: Max:

and Beam Mode (ERS1, ERS2, S2, S7, IM, ...)

and Track Number (ERS or Envisat, not defined for Radarsat)

and Orbit Number Range

and From: To:

and Frame Number Range (ERS and Envisat, not defined for Radarsat)

and From: To:

Select Mission:

Select data source:

Show

Frame markers: yes no

Frames: yes no

Tracks: yes no

Paths

Ascending paths: yes no

Descending paths: yes no

Latitude range

Min: Max:

Longitude range

Min: Max:

Date Limits

Year: Mon: Day:

To Year: Mon: Day:

Track, frame, orbit (ESA scenes)

Track:

Frame min: max:

Orbit min: max:

Redraw map style

Show SAR search area:

Google Maps style zoom & pan:

UNAVCO SAR Archive Search Interface (beta)

Mission is ERS2; data source is UNAVCO WinSAR holdings; 64 scenes match search

Map shows archive scenes on descending paths centered in search area (frames), for 2002-02-02 to 2003-03-03

Frame markers: - SAR data available from UNAVCO