

# **UNAVCO WInSAR Report 2008**

## December 17, 2008

Contact us: winsar@unavco.org



# **WInSAR Funding**

## **NSF/NASA Grant**

\$50K from each, total \$100K per year (2008-2011; startup 6/08)

### **USGS Cooperative Agreement**

\$50K per year (FY2009 – FY2013; startup 11/08) Archived data and tasking purchases for volcano targets

## University of Nevada Reno (John Bell) PO

\$6K for data and tasking purchases related to Wells earthquake

## **UNAVCO-ASF Information Technology proposal (with ESA partnering)**

submitted to NASA Research Opportunities in Solid Earth Sciences \*Learned last week this was <u>not</u> successful\*



## WInSAR Funding Picture 2008-2010

- \$100K from NASA/NSF per year
- \$50K from USGS per year
- Personnel funds:
  - Archivist (3 years, 0.25 FTE)
  - Software Developer (2 years, 0.5 FTE)
- Remaining funds: data purchase, scientist travel to conference
- Data/tasking funds budgeted through NSF/NASA in 2008: \$48K
- Data/tasking funds expended or committed in 2008 to date: \$38K
- GeoEarthScope will cover about \$20K of WInSAR 2008 expended for data





## WInSAR Holdings Summary

UNAVCO WInSAR Node Searchable Catalog

- 1.3 Tb
- ERS: 6,518 frames
  - increase of 768 from December 2007
- Envisat: 948 frames or swaths
  - increase of 480 from December 2007
- ~10,600 ALOS L1 data pool catalog (data at ASF)

http://winsar.unavco.org/search.php



## **GeoEarthScope Holdings Summary**

- 17 Tb in GeoEarthScope
- ERS: 55,000 frames (sources:ASF and ESA)
- Envisat: 7,800 frames (source: ESA)
- Radarsat-1: 41,000 frames (source: ASF)

http://geoes-insar.unavco.org/archive search and download requests.php







Envisat

ERS2



## **2008 Tasks Accomplished**

- New ESA Category-1 proposal submitted, accepted
- Previous WInSAR Cat-1 projects closed, final reports submitted
- On track with ESA billing, orders
- ~1250 ERS/Envisat scenes ordered, received, ingested
- Envisat tasking submitted for Wells, USGS targets
- Improvements to the UNAVCO WInSAR database/web
  - Improved frame assignments Envisat/ERS
  - Improved ingestion of ASF ALOS L1 data pool metadata into searchable catalog
  - Order request page allows Envisat requests and shows GeoEarthScope holdings
  - Database design
- Response to Wells earthquake and ShakeOut drill
- UNAVCO Internet-2 implementation completed faster download speeds



# http://winsar.unavco.org/ordering/searchn.php

## Request ordering of ERS or Envisat <u>frames</u> See GeoEarthScope holdings

5	WIŋ	SAR ORDER DATA								
	Combined WInSAR	and GeoEarthscope Search								
home	This is a Beta version for testing.									
mission	Use this page to search for ERS and Envisat radar scenes in the WInSAR and GeoEarthscope archives at UNAVCO, and to send a request to WInSAR to order the data from ESA.									
documents	You can download data from the WInSAR archive here using the links in the request/download colu									
archive status	You can download GeoEarthScope data from the GeoEarthScope Search and Order page.									
search archive		To search for ALOS PALSAR scenes in the ASF L1 Data Pool, use the <u>WinSAR Search</u> . To order ALOS PALSAR data for the ASF L1 Data Pool, see <u>ALOS Information</u> .								
apply for access ALOS information Envisat	See also:	My Orders My Info								
orders	Search Form	Please enter your search parameters here:								
ESA Orders ancillary data/software help	Sensor and Phase	E1-A E1-Q, E1-Q, E2-A E1-B, E1-D E1-E, E1-F ENVT-A								
publications		Choose multiple by holding the Control key while clicking								
tinks	Track	Please list track numbers, separated by spaces.								
contact	Frame	From: To:								
	Orbit	From: To:								
	Date	From: 2006 V 01 V 01 V To: 2008 V 12 V 13 V								
	Latitude	From to								
	Longitude	From to								
	Status	not archived ar VMnGAR archived ar VMnGAR requested by VMnGAR user(r) or arcuited by VMnGAR user(r) or archived								
		Choose multiple by holding the Control key while clicking								
	Download Location (WInSAR only)	♥ucsd ♥stanford ♥caltech ♥ASF ♥UNAVCO								
	Archive Holdings (fi									
	Missio ERS	n GeoEarthScope Winsar ordered requested 41043 6450 87 83								

<u>sensor</u>	<u>phase</u>	<u>orbit</u>	<u>track</u>	<u>frame</u>	bperp	bpar	<u>date</u>	request/download	remarks	<u>lat</u>	<u>lon</u>
ENV1	А	34220	98	2961			2008-09-15	🔲 request		32.04	-107.52
ENV1	А	34220	98	2943			2008-09-15	📃 request		32.93	-107.3
ENV1	А	34220	98	2925			2008-09-15			33.82	-107.08
ENV1	А	34220	98	2907			2008-09-15			34.71	-106.86
ENV1	А	34220	98	2889			2008-09-15	📃 request		35.6	-106.63
ENV1	А	34220	98	2871			2008-09-15	📃 request		36.49	-106.4
ENV1	А	34220	98	2853			2008-09-15	📃 request		37.38	-106.17
ENV1	А	33719	98	2961			2008-08-11	in GeoEarthScope	c003/38118	32.04	-107.52
ENV1	А	33719	98	2943			2008-08-11	in GeoEarthScope	c003/38114	32.93	-107.3
ENV1	А	33719	98	2925			2008-08-11	in GeoEarthScope	c003/38111	33.82	-107.08
ENV1	А	33719	98	2907			2008-08-11	in GeoEarthScope	c003/38110	34.71	-106.86
ENV1	А	33719	98	2889			2008-08-11	in GeoEarthScope	c003/38113	35.6	-106.63
ENV1	А	33719	98	2871			2008-08-11	in GeoEarthScope	c003/38119	36.49	-106.4
ENV1	А	33719	98	2853			2008-08-11	in GeoEarthScope	c003/38098	37.38	-106.17
ENV1	А	33218	98	2961			2008-07-07	in GeoEarthScope	c003/38052	32.04	-107.52
ENV1	А	33218	98	2943			2008-07-07	in GeoEarthScope	c003/38067	32.93	-107.3
ENV1	А	33218	98	2925			2008-07-07	in GeoEarthScope	c003/38060	33.82	-107.08
ENV1	А	33218	98	2907			2008-07-07	in GeoEarthScope	c003/38068	34.71	-106.86
ENV1	А	33218	98	2889			2008-07-07	in GeoEarthScope	c003/38049	35.6	-106.63
ENV1	А	33218	98	2871			2008-07-07	in GeoEarthScope	c003/38054	36.49	-106.4
ENV1	А	33218	98	2853			2008-07-07	in GeoEarthScope	c003/38066	37.38	-106.17
E2	А	68589	98	3015			2008-06-02	request		29.36	-108.16

## Alternative: (e.g.swaths) e-mail EOLI shopcart to winsar@unavco.org



## 2009 Plans

- Proceed with general WInSAR ordering as budget allows
- USGS orders, Wells orders
- Unify search for GeoEarthScope and WInSAR holdings
  - Merge databases of metadata
  - Search interface enhancements
- Website Improvements
  - Replace Java map with GoogleMaps base showing scene footprints
  - Merge request and search/download interface
- WInSAR node syncing capability
  - Form a user group among those institutions wishing to have up-to-date WInSAR node

InSAR search/access Q and A at the UNAVCO Booth:

Today 3-4 pm --- Thursday 9:30-10 am