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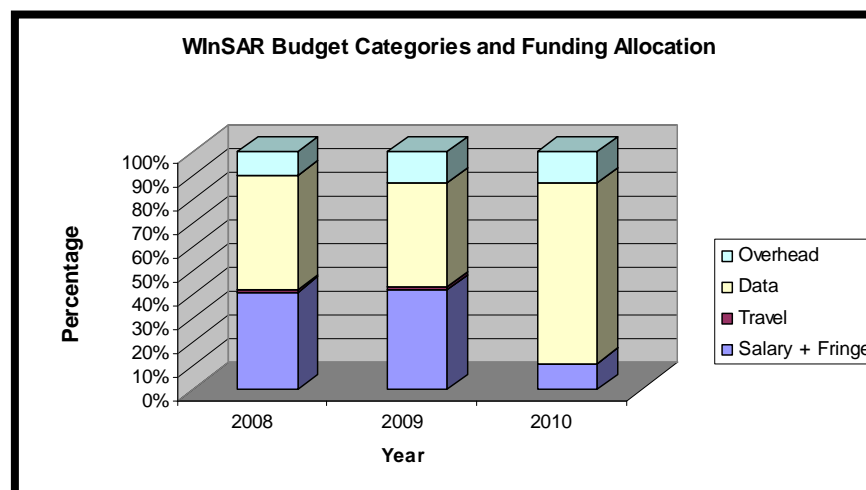$6K for data and tasking purchases related to Wells earthquake

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

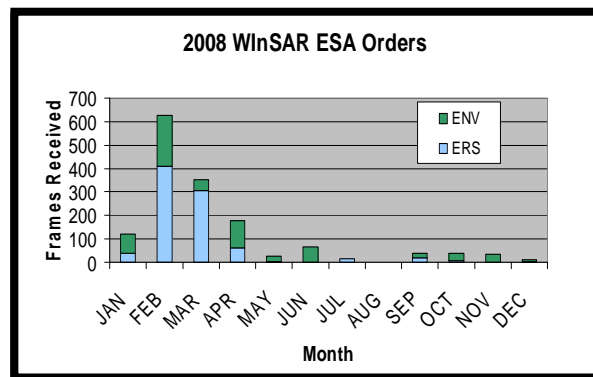WInSAR Budget Categories and Funding Allocation

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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

2008 WInSAR ESA Orders
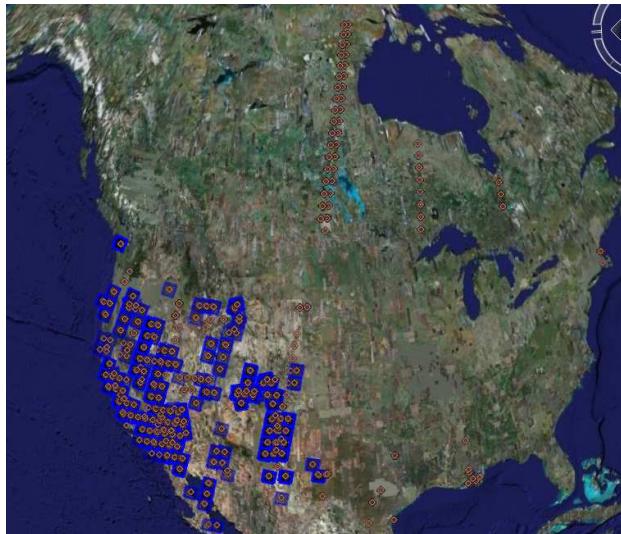

GeoEarthScope Holdings Summary

- 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
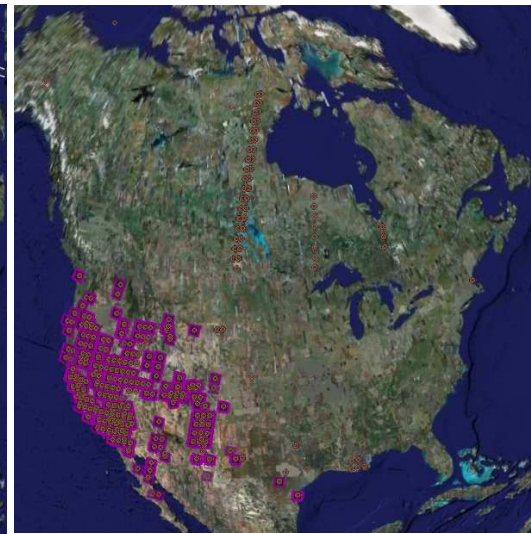
Envisat

ERS1

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

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