

Sentinel preparation session

Unavco Science Workshop, Boulder, Co, March 9 2010

Summarized by F. Amelung, University of Miami

1. Develop Brochure with ERS/WinSAR achievements

- (or: unsolicited Sentinel Cat-1 proposal for WinSAR core area)
- (Principal audiences: ESA or EUSat upper management, EU GMES delegates, US Sponsors)
- Form: 15-20 half-letter-sized pages. Each with 1-2 images and text (Similar to ESA's ERS-2 gyroless InSAR brochure)
- Will be presented to ESA at Bergen, Living Planet Symposium, June 28.
- WinSAR Brochure committee: David Schmidt
- Text will be made brochure-ready by Unavco staff.

2. Budget

Need \$3-4k for design and printing. Will be added to NASA supplement. If not approved use WinSAR budget.

3. Scientific Achievements:

Earthquakes:

Landers, Hector Mine
Interseismic along South San Andreas
PS San Francisco Bay area
Rheology: Hector Mine and Basin and Range post-seismic.

Volcanoes:

Yellowstone
Three Sisters
Alaskan volcanoes

Hydrogeodesy:

Urban subsidence (Las Vegas, Seattle, Phoenix, Houston)
Agricultural (San-Joaquin Valley)
Landslides

4. Organisational Achievements:

- Creation of WinSAR, organization of scientific community
- WinSAR Archiving system (catalogue and searching tools)
- promoting use of data by "data sharing", facilitating time-series analysis tools
- Operational use (routine monitoring of volcanoes) (Shake Out ?)
- Yearly shortcourses (25 participants)
- technology development: (facilitating software development/sharing: roi_pac, STAMPS)

5. Opportunities and Challenges with Sentinel

- Provide examples for integration of multiple data sets (SAR with GPS)
- Routine development of higher-order data products (time series)
- WinSAR could produce a homogeneous, unified multi-satellite SAR data set
- Develop data portal for one-stop shopping for seismic, GPS and SAR data (Earthscope data portal).
- Integration of Sentinel data with Earthscope data, C-band continuation
- (European contribution to Earthscope)