

Report on the use of JAXA's ALOS/PALSAR data for the GEO Task "Haiti and Chile Supersites".

Sub-task Number: DI-09-01a

Sub-task Title: *Vulnerability mapping and risk assessment*

Sub-task Initiative: Supersites and Natural Laboratories

Overarching Task: Systematic Monitoring for Geohazards Risk Assessment

Area: DISASTERS (GEO Secretariat, P.O. Francesco Gaetani, FGaetani@geosec.org)

Related Community of Practice: Geohazards

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The Supersite initiative began with the "Frascati declaration" at the conclusion of the 3rd International Geohazards workshop of the Group of Earth Observation (GEO), held in November 2007 in Frascati, Italy. The recommendation of the workshop was "to stimulate an international and intergovernmental effort to monitor and study selected reference sites by establishing open access to relevant datasets according to GEO principles to foster the collaboration between all various partners and end-users". This recommendation is formalized as GEO task DI-09-01.

This recommendation was acted upon at the 2nd workshop on the Use of Remote Sensing Techniques for Monitoring Volcanoes and Seismogenic Areas – USEReST, held in Naples, Italy in November 2008. A scientific session on potential Supersites was convened, followed by an open discussion about the Supersite concept. More than 25 workshop participants agreed to contribute ground-based and space-based data to the initiative. A key contribution is that from the European Space Agency who provides the IT infrastructure for an online SAR data archive (now known as ESA's "Virtual Archive").

The website is currently based at Unavco in Boulder, USA. Unavco is the home of the Western North America InSAR consortium (WInSAR) and has extensive experience with SAR and GPS data.

The Supersites initiative experienced a great interest from the Scientific Community, both from the Universities and the Research centres, which are of relevance in the study of the geohazard monitoring, and in the fundamental research on geohazards. Supersites Initiative goes beyond the Academic visibility, since its represent a practical and clear paradigm of "applied technology", whose benefits and results are apparent and could easily be understood by most of the non-technical readers (see, Padgett, T., Time, Monday, Feb. 01, 2010 http://www.time.com/time/specials/packages/article/0,28804,1953379_1953494_1958231,00.html).

This document reports on web activities and internet connections registered by the Supersites pages relevant to the Haiti and the Chile earthquakes occurred on January 12, 2010, and on February 27, 2010 respectively.

In the considered period of time, a total of 414 visitors used the Supersites to download PALSAR data and to conduct InSAR analysis on earthquake in Haiti and in Chile. A synthesis of the Visitors Countries and Affiliation, along with the complete list of contacts (log file) is provided for both Supersites.

The logs for both Haiti and Chile is completed with 8 lines per submission, giving the time and originating IP address, and confirming that the agreement with was accepted, in addition to the name, email and institution entered by the user.

Haiti Supersites.

Webpage: <http://supersites.unavco.org/haiti.php>

Considered time interval: 29, January, 2010 – 22, March 2010

Number of visits: 212

Visitors's country (see Table below)

ar	br	ca	ch	cn	de	do	es	Eu	fr	hk	in	ir	it	jp	nl	no	uk	us	th
2	1	18	4	34	13	1	1	2	19	12	2	2	24	1	7	3	13	52	1

Visitor's Affiliation (see Table below)

Education (Universities)	State laboratories or Public Research centres	Private sector	
	114	85	13

Chile Supersites.

Webpage: <http://supersites.unavco.org/chile.php>

Considered time interval: 11, March 2010 – 21, April 2010

Number of visits: 202

Visitors's country (see Table below)

ar	ca	cn	de	es	fr	gr	hk	it	nl	no	uk	us
4	2	19	8	2	29	1	23	58	9	2	7	38

Visitor's Affiliation (see Table below)

Education (Universities)	State laboratories or Public Research centres	Private sector	
	83	116	3

Log files

The original report to JAXA contained 50 pages of log entries of individual users of the Haiti and Chile Supersite (not reproduced here)