

# Questionnaire: Geohazard Supersites and Natural Laboratories

**Component of GEO 2012-2015 work plan:** C2 Geohazards Monitoring, Alert, and Risk Assessment

**Priority action:** Establish Geohazards Supersites and Natural Laboratories

**Area:** DISASTERS (GEO Secretariat, Francesco Gaetani, [FGaetani@geosec.org](mailto:FGaetani@geosec.org))

**Leads (GEO Member or PO, Entity carrying out the work, contact: e-mail):**

Falk Amelung, University of Miami, USA, [famelung@rsmas.miami.edu](mailto:famelung@rsmas.miami.edu)

Massimo Cocco, European Plate Boundary Observatory (EPOS) and INGV, Italy ([massimo.cocco@ingv.it](mailto:massimo.cocco@ingv.it)),

Joern Hoffmann, Committee of Earth Observation Satellites (CEOS) and DLR ([Joern.Hoffmann@dlr.de](mailto:Joern.Hoffmann@dlr.de)).

## **Purpose of this Questionnaire:**

1. Provide guidance to the Scientific Advisory Committee (SAC) for selecting Candidate Supersite which eventually will become permanent Supersites.
2. Collect information on potential contributors for the development of a global network of Natural Laboratories for geohazards (including Point-of-Contacts for the establishment of event Supersites) as part of the Global Earth Observation System of Systems (GEOSS).

## **Who should respond?**

1. Geohazard monitoring agencies interested in participating in the initiative.
2. Scientists with particular interests in specific geohazard regions.

## **What are the selection criteria for Candidate Supersites?**

The criteria are (1) the potential for new scientific discoveries, (2) vulnerability to geohazards and (3) commitment to GEO data sharing principles.

E-mail filled questionnaire to Massimo Cocco (Europe, Africa) or Falk Amelung (elsewhere). This information will be incorporated into the strategic plan under development (section 10.2, 10.3).

**Proposed Candidate Supersite:** .....

**Natural Laboratory:** ..... (e.g. Caribbean natural laboratory)

**Point of Contact (PoC):** ..... (name, organization, e-mail)

**Volcano PoC\* (if different)** ..... (name, organization, e-mail)

**Monitoring Agency(s):** ..... (name)

**Scientist(s) involved:** ..... (name, organization, e-mail)

(\* ) to designate event Supersites in the case of volcanic unrest

**Scientific rationale:** 1-2 paragraphs describing the geologic background, hazard, research questions, monitoring goals, expected results (see draft of strategic plan for examples) .....

**SAR data needs (if known)** area to be covered, revisit time, mode (ascending or descending or both), very high resolution (e.g. spotlight) or stripmap (provide maps of planned coverage)

***In-situ observation networks\****

Network (name,type)	# of stations	open data access	archiving organization	Available from global facility (IRIS, Unavco, ISC, other)?	Interest in participating in data sharing demonstrator? **	Technical hurdles for participation in data sharing
...	...	yes/no	...	...	yes/no	
...	...	yes/no	...	yes/no	yes/no	

Relevant websites:

(\*) This information will be used for a global inventory of in-situ data assets

(\*\*) e.g. GNSS data sharing, visit Supersites website for information. For an example, see ([http://www.unavco.org/pubs\\_reports/reports/annual/gsac/ROSES-GSAC-review-yr1.pdf](http://www.unavco.org/pubs_reports/reports/annual/gsac/ROSES-GSAC-review-yr1.pdf))

***Other comments:***

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Submitted by: