

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)

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

Falk Amelung, University of Miami, USA, famelung@rsmas.miami.edu

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

Joern Hoffmann, Committee of Earth Observation Satellites (CEOS) and DLR (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)

Other comments:

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Submitted by: