

Andes Natural Laboratories –Summary of Discussions

**Special Topics Session at the Unavco Science Workshop, Boulder, Co,
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Summarized by F. Amelung, University of Miami

Proposed Natural Laboratories and Potential Supersites

Northern Andes Natural Laboratory:

Ecuador, Colombia, Venezuela and Northern Peru.

Potential Supersites: Tungurahua. Galeras?

Southern and Central Andes Natural Laboratory

Chile, Argentina, Bolivia, Southern Peru

Potential Supersites: Lascar, Laguna del Maule, Lastarria an Cordon Caulle.

Central America Natural Laboratory

Potential Supersites: Telica and Cerro Negro (1 frame)

Caribbean Natural Laboratory.

Supersite: Santiago, D.R.

Potential Supersite: Montserrat

Next Steps

1. Initiate TerraSAR-X acquisitions to build momentum
2. Develop Natural Laboratories teams with Point-of-Contacts in each country/laboratory.
3. Organize GEOSS meeting (in Chile or Argentina). The objective is writing White Papers summarizing the in-situ monitoring assets and develop observation strategies synenergizing the in-situ and satellite-based resources. Identify observation gaps. This meeting will be organized by Space Agencies in collaboration with Geodesy and Seismic Community.

Organizations involved:

Space Agencies:

CONAE, ACE, NASA (coordinated by Craig Dobson)

In-situ monitoring agencies:

A. contacted and agreed (sort-of) (coordinated by F Amelung, B Brooks and M Pritchard)

Chile Sergio Barrientos (Universidad de Chile), Luiz Lara (Sernageomin)

Ecuador: IGEPN (Patty Motthes, Hugo Yepes, Mario Ruiz)

Colombia: Colombian Geological Survey (Hector Mora-Paez, Diego Gomez, Adriana Agudelo, Elkin Salcedo-Hurtado)
Volcanology: Marta Calvache

Montserrat: Paul Cole, Adam Stinton, Henry Odbert (MVO)

B. Need to approach organizations in the following countries:

Argentina, Brasil, Bolivia, Peru (Edmundo Norabuena, **action: Falk**), Venezuela, Panama, Costa Rica, Nicaragua, El Salvador, Honduras, UWI -Seismic Research Unit: (Richard Robertson)

C. U.S. team:

Geodesy: Ben Brooks (U Hawaii), M Pritchard (U Cornell), P La Femina (Penn State), F Blume (Unavco), F. Amelung (U Miami), P. Lundgren (JPL), M. Simons (CalTech)

Volcanology: John Eichelberger (USGS)

Seismic: Tim Ahern (IRIS)