

Geohazards Supersites



CEOS Committee on Earth Observation Satellites



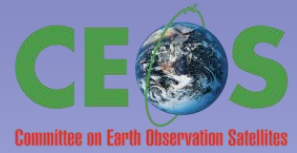
Guy Seguin

Agenda



- Report from the 2011 CEOS plenary
- Terms of References
- Process
- Update on Supersite proposal – Wolfgang

(From the Plenary) Geohazards Supersites



ref 2009-11 GEO Work Plan Task DI-09-01a



- Program of access to spaceborne EO and *in situ* geophysical data of selected sites prone to earthquake, volcanoes, or other hazards
- Objectives
 - Initial: Address observational gaps through multi-satellite on-line SAR data repository for the selected Supersites, and enhanced data access
 - Long-term: International, sustainable and integrated approach to geohazards, with optimal use of GEO members' satellite and *in situ* data
- Supersites Side Meeting: Sept 2011 FRINGE Conference
 - Principal Investigator (PI) proposal process review
 - Broadest possible data sharing within existing data policies
 - Science reporting to data providers
- Requests to CEOS Plenary
 - CEOS Agencies data provision on Hawaii Supersite as GEO showcase
 - Concur on establishment of a CEOS Disaster SBA Team subgroup to review Supersite proposal requests and coordinate Agency data provision

(From the Plenary) Supersites (cont'd)



- **CEOS Agencies Providing remote sensing data/information:** CSA, DLR, ESA, JAXA, ASI, NASA
- **Data/Information Provided to:** Supersites PI's Pablo Del Acqua
 - Supersite web page lead will change. Falk Amelung coming down
- **When/how is this data/information being provided?** Data resides in CEOS Agency databases and can be accessed through Supersites virtual cyber-infrastructure
- **Feedback from CEOS "Customers"?** Feedback from Supersites PI's is very favourable. Multi-source SAR data has benefitted research at various sites worldwide. Interest in additional sites and demand for related data is very high and needs to be developed in a systematic way so as to not overwhelm CEOS Agency resources, or run afoul of prevailing data policies.
- **Plans to continue the project?** Yes, for an indefinite period of time, to an undefined number of sites, including those subject to other geo-hazards (e.g., landslides)



Lucca Statement

CEOS Agencies have decided at the recent plenary in Lucca to focus on the following priority initiatives which will constitute the core of their program for the years ahead: (among others)

- **The development of a more integrated approach in the areas of disaster mitigation and disaster management; and,**
 - **Continued progress in the implementation of the Geo-hazards Supersites initiative to further the understanding of tectonic processes in relation to natural disasters**
 - **An emphasis of the role that CEOS agencies can play in the complete Disaster Risk Management Cycle, in response to requirements from operational stakeholders.**

Terms of Reference

Supersite evaluation and coord. team



- Develop an agreement with the CoP on the objectives and definition of supersite.
- Establish process to respond to the supersite proposals
- Review Supersites proposals and evaluate the science aspect and coordinate Space Agencies data provision.
- Advise CEOS on course of actions and policy.
- Identify required actions in CEOS action plan and report to CEOS on milestones deliverables and progress
- Advise on resources, delivery on commitments of Members and Participating Organizations.
- Initial members are: CSA, DLR, ESA,ASI

Proposed procedure



- Use Supersite White paper as starting point
- Limit number of natural laboratories and respond to event supersite.
- New Supersite PI should submit proposal with specific data needs to CEOS PoC, showing expected results and synergy utilizing the specific strengths of satellites and in-situ data (value of the combination should be clear). This should use a SOAR like format TBD.
- Proposal Supersite should be a scientific and research activities objectives
- Reporting from the science community to the data providers is essential. The benefit for both, data provider and scientists, of openly available access needs to be shown. Could use UNAVCO site.
- Individual data policies need to be respected

Conclusions and Recommendations



Action DI-01-C2_1

Supersite proposals evaluation and data coordination

POC: Joern Hoffman

Participating agencies: ESA, CSA, DLR, ASI + others

Milestones and deliverables

-Agreement with CoP of definition and objectives of
Supersite: May Santorini

-Format for the proposal: May

-Identify initial National Laboratorie/Supersite: July

-Initial data coordination and provision: CEOS plenary