

LARGE Solicitation and Publication of Compelling Examples Showing GEOSS at Work for Science and Technology Communities

Summary for STC Co-Chairs

prepared by Hans-Peter Plag

University of Nevada, Reno

GEO Participating Organization: IEEE

September 8, 2010

1 Summary of Work

Main focus of the work was on the solicitation of Compelling Example (CE) proposals and the iteration of the review criteria. The development of the publication concept is in an initial state. A full documentation of the status concerning invited and submitted proposals is available at the work space web site of the ST-09-02 Task at <http://www.geo-tasks.org/st0902>.

The status with respect to solicitation of proposals is summarized in Section 3. In total, 35 invitations for proposals were sent to authors of showcase proposals and to presenters at the 2009 AGU Fall Union session on GEOSS. These invitations cover all nine Societal Benefit Areas (SBAs). The presenters at the two GEOSS Sessions at the ISPRS Commission VIII Symposium, August 9-12, 2010, Kyoto, Japan, were contacted individually during the symposium.

A response was received from fourteen invitees. Two declined the invitation for several reasons, including the fact that activities were already sufficiently displayed at the Ministerial Summit. This indicated that several invitees considered the CE activity as a specific effort for the Ministerial Summit and less an on-going activity to promote GEOSS in Science and Technology (S&T) communities. Twelve responses were positive, but not all of these have resulted in submissions of proposals so far.

In total, there are currently nine SBA-specific proposals covering seven out of the nine SBAs, and two cross-cutting proposals addressing architecture and observation networks. A list of the proposals submitted and currently under review by the ST-09-02 Task team is provided in Section 4. Late proposals will be included in the review as they become available.

Each Task team member has been asked to sign up for reviews of three proposals. The Task Team has iterated the criteria for the review of the proposals and agreed on the assessment of the proposals based on the review form reproduced in Section 2.

It is planned to have the review completed by September 17, 2010. After that, the list of the accepted proposals will be made available to the STC for comments.

An initial publication concept has been drafted. The concept anticipates an entrance page with a link to sufficient information on the background of the CE activity, an introduction emphasizing the relation between GEOSS and S&T communities (including the ways GEOSS works for S&T communities), a summary of the benefits of GEOSS for S&T communities, and a brief list of the existing CEs. The summary will also include links to a standard set of documentation pieces for each CE. A template for the introductory page for each CE has also been developed as part of the publication concept. The draft is currently under discussion in the ST-09-02 Task team.

2 Review Form for Compelling Example Proposals

Review Criteria for Compelling Examples (CEs) Demonstrating the Benefits of GEOSS for Science and Technology Communities

Proposal Title:

Corresponding author:

Proposal Team:

Review

Rate all questions on a scale from 0 to 5 with 0 corresponding to "not all", and 5 corresponding to "Perfectly."

1. To what extent does the CE relate to S&T issues?

Rating 0__1__2__3__4__5__

Explain:

2. To what extent does the CE demonstrated the added value of GEOSS for S&T communities?

Rating 0__1__2__3__4__5__

Explain:

3. To what extent are S&T communities involved in the activity displayed in the CE?

Rating 0__1__2__3__4__5__

Explain:

4. Do these S&T communities benefit and get added value out of the CE?

Rating 0__1__2__3__4__5__

Explain:

5. To what extent does the CE relate to the goals of ST-09-02?

Rating 0__1__2__3__4__5__

Explain:

6. To what extent does the CE address issues and perspectives developed in the STC Paper?

Rating 0__1__2__3__4__5__

Explain:

7. Does the proposed example qualify as a CE in the sense of Activity 3.3?

Rating 0__1__2__3__4__5__

Explain:

3 List of invited CE proposals

Committee	Proposal title	Proposal Contact	Response	Status
STC/Biodiversity	The GEO Biodiversity Observation Network (GEO BON)	Gary Geller	In discussion with team.	Showcase proposal available.
STC/Ecosystems	Top-level tiers for Global Ecosystem Classification and Mapping Initiative (GEOSS Task EC-06-02)	Rob Jongman	Unclear response due to misunderstanding.	Showcase proposal available.
STC/Ecosystems	Digital Observatory for Protected Areas	Massimo Craglia	No response	Showcase proposal available.
STC/Climate	The ESA Climate Change Initiative	Einar-Arne Herland	Positive but needs more time.	Showcase proposal available.
STC/Climate	The GMES Space Component: Sentinels	Einar-Arne Herland	Positive but needs more time.	Showcase proposal available.
STC/Health	AIRNow-International	Phil Dickerson	No response	Showcase proposal available.
STC/Water	A prototype observation system for water resources in South-East Asia	Massimo Menti	No response	Showcase proposal available.
STC/UIC/Health	From Science to Decisions: Air, Land, and Water	Pai-Yei Whung, Gary Foley	Proposal submitted.	CE proposal and original showcase proposal available.
STC/Crosscutting	Data Sharing Task Force: Working towards reaching a consensus at the GEO 2010 Ministerial Summit on the practical steps to implement the GEOSS Data Sharing Principles	Robert Chen	No response	Showcase proposal available.
STC/Climate	EuroSITES	Kate Larkin	Proposal submitted.	CE proposal prepared by Maureen Pagnani available. Original showcase proposal available.
STC/?	DevCoCast	Jacobs Tim	No response	Showcase proposal available.
STC/UIC/Climate	Global Carbon Monitoring System	Léonard Rivier	No response	Showcase proposal available.
STC/Health	Aerosol Impacts on Health and Environment	Slobodan Nickovic	No response.	Showcase proposal available.
STC/?	An Italian S&T infrastructure for contributing to the GEOSS	Paolo Mazzetti	No response	Showcase proposal available.

Committee	Proposal title	Proposal Contact	Response	Status
STC/Weather	GIFS A Global Interactive Forecasting System	Jim Caughey	Declined due to good representation of the activity at the Ministerial.	Showcase proposal available.
STC/Weather	Tropical convection in weather and climate prediction	Jim Caughey	Proposal submitted.	CE proposal submitted by Mitchell W. Moncrieff available. Original showcase proposal available.
UIC/Weather	Multi-Sensor Usage for Drought Assessment in the Middle East	Shawana Johnson	No response	Showcase proposal available.
UIC/Health	Collaborative Networking of Air Quality Information Systems	Carol Meyer	Proposal submitted.	CE proposal and original showcase proposal available.
UIC/ADC/?	OneGeology and OneGeology-Europe	Ian Jackson	Proposal submitted.	CE proposal prepared by Kathryn Booth available. Original showcase proposal available.
UIC/Agriculture	The Geo-wiki land cover validation tool: involving the wider public in Geo related activities	Steffen Fritz	No response; reminder sent.	Showcase proposal available.
ADC/Agriculture	Towards a global soil information system	Luca Montanarella	Proposal submitted.	CE proposal and original showcase proposal available.
ADC/Agriculture	Forest Carbon Monitoring System	Ryosuke Shibasaki	No response.	Showcase proposal available.
ADC/Architecture	GEOSS Architecture Implementation	George Percivall	Proposal submitted	CE proposal and original showcase proposal available.
ADC/Water	Asia/Africa Water Cycle Initiative	Ryosuke Shibasaki	No response	Showcase proposal available.
ADC/Climate	Global Monitoring of Greenhouse Gases from Space	Ryosuke Shibasaki	No response	Showcase proposal available.
STC/Disaster	Supersites	Falk Amelung	Positive, but asks to prepare the proposal on the basis of the web page.	No proposal available yet.
Crosscutting	The Role of Science and Technology in the Global Earth Observation System of Systems (GEOSS)	Stuart Minchin, Meghan Radtke	No response; reminder sent.	No proposal available.
Crosscutting	The ASTER Global Topographic Data Set	Michael Abrams	Declined since already selected as showcase	No proposal available.

Committee	Proposal title	Proposal Contact	Response	Status
Weather	Real-time Global Flood and Landslide Prediction Using Satellite Observations	R. F. Adler	No response	No proposal available.
Energy	Enhancing Decision Making in the Energy Sector Using Space-Based Earth Observations: A GEO and CEOS Perspective	Richard Eckman	No response	No proposal available.
Climate	How Key GEOSS Datasets Contribute to the Global Monitoring and Assessment of Glaciers	S. S. Khalsa	No response	No proposal available.
Climate	Satellite Constellation for Ocean Wind and Stress	W. Timothy Liu	No response	No proposal available.
Biodiversity	The Global Invasive Species Information Network: contributing to GEO Task BI-07-01b	J. Grahamj/a _j	No response	No proposal available.
Agriculture	A GEO Global Agricultural Water Productivity Mapping System	P. S. Thenkabail	No response	No proposal available.
Agriculture	Integrating Socioeconomic Data into GEOSS to Enable Societal Benefits	R. S. Chen	No response	No proposal available.

4 List of submitted CE Proposals

SBA	Contact	Title
Water	Russel Lefevre	Pilot Projects for Improved Water Discovery and Quality Assessments
Disasters	Kathryn Booth	OneGeology and OneGeology-Europe
Climate	Jun She Mitchell W. Moncrieff	Capacity building of operational oceanography and climate adaptation Year of Tropical Convection (YOTC)
Ecosystems	Vojko Bratina	enviroGRIDS Building Capacity for a Black Sea Catchment Observation and Assessment System supporting Sustainable Development
Biodiversity	Bob Scholes	Protected Areas Monitoring Pilot
Agriculture	Luca Montanarella	The Harmonized World Soil Database (HWSD) as a first step towards a Global Soil Information System
Health	Carol Meyer Pai-Yei Whung	Air Quality, related to Health, Climate, Energy, Disasters and Ecosystem SBAs Using Earth Observations to Benefit Health
Cross-cutting	George Percivall Maureen Pagnani	GEOSS Architecture Implementation EuroSITES : European Observatory Network