

Interaction between WGCV and WGISS

Pakorn Apaphant
WGISS Vice Chair

May 26-29, 2009
Ilhabela, Sao Paulo, Brazil

DA-09-03d_3: Global DEM

■ Action

- To update ICEDS information server to provide OGC-compliant access to ASTER 30m DEM data (when it becomes available), together with localized validation DEM data and associated quality information

■ Lead -WGCV –J.P. Muller

- WGISS -Wyn Cudlip

■ Expected Cooperation/Progress

- Support for WMS display of ASTER GDEM for inter-comparisons with other datasets
- Promote full public release of entire ASTER GDEM with no download limitations
- Support ‘gap filling’ coverage of regions lacking adequate quality of ASTER GDEM
- Identify CEOS role in supporting bathymetry data products using LIDAR

DA-09-01a_10: GEOSS Quality Assurance

- Action
 - **Quality Assurance Framework for Earth Observation (QA4EO) Implementation**
- Lead: WGCV- Pascal Lecomte/Gregory Stensaas
 - CEOS members, WGs and VCs
 - WGISS-TBD
- Expected Cooperation
 - May 09: Work with CEOS WGISS on Cal/Val data access
- Way Forward
 - Pakorn will attend WGCV and find potential cooperation
 - WGISS may have a special session in WGISS28 on QA4EO

DA-09-01a_11: GEOSS Quality Assurance

- Action
 - CEOS Reference Test Site Data Collaboration and Comparison
- Lead -WGCV -N. Fox, G. Chander, P. Goryl, and C. Cao
 - WGISS -TBD
- Expect Cooperation
 - TBD
- Way forward
 - Pakorn will attend WGCV and find potential cooperation

DA-09-01b_2: Data, Metadata, and Products Harmonization

■ Action

- Establish a DMPH project to focus its contributions to the subject task and to generate those contributions. The first deliverable of the GEO task is an Assessment of Current Capabilities

■ Lead -WGISS -Ken McDonald, NOAA

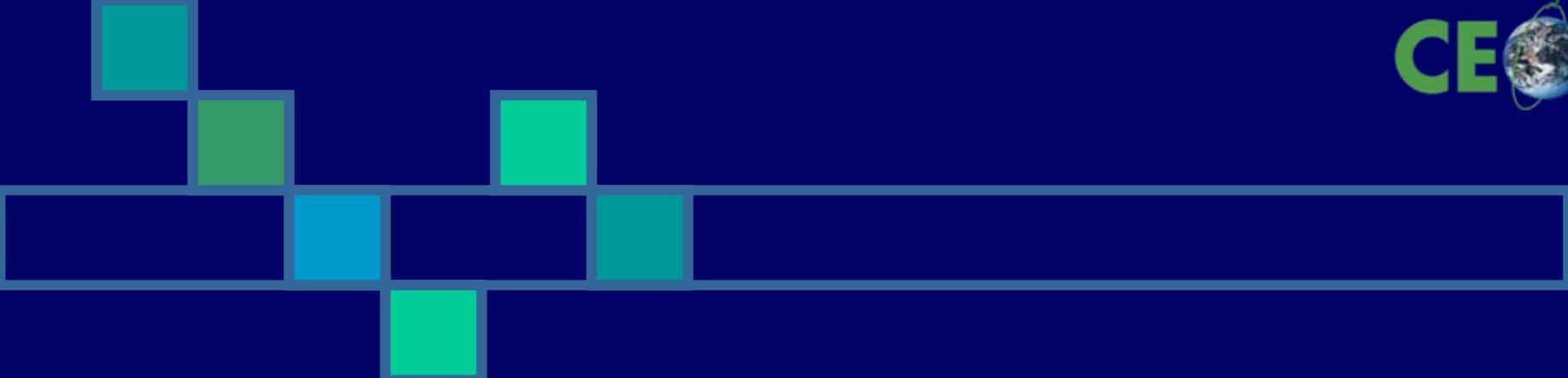
- WGCV -Greg Stensaas (*Proposed*)

■ Expected Cooperation

- TBD

■ Progress

- Establish a DMPH Project to provide support to this CEOS/GEO Action
- Pakorn will attend the WGCV meeting and provide them update on this action

A decorative graphic at the top of the slide consisting of several colored squares (teal, light blue, and dark blue) arranged in a grid-like pattern above a long, thin horizontal bar with a blue outline.

Data, Metadata & Products Harmonization

WGISS-WGCV Support to GEO DA-09-01b



Ken McDonald, NOAA
Yonsook Enloe, NASA/SGT
WGISS

GEO Task DA-09-01b -Background

■ Task Description

- Facilitate the development, availability and harmonization of data, metadata, and products commonly required across diverse societal benefit areas, including base maps, land-cover data sets, and common socio-economic data.

■ Task History

- Continuation of Task DA-06-04 with same description
- Earlier task described ongoing efforts of members and participating organizations
- Did not address harmonization at GEO level
- Initial effort overtaken by GEO Common Infrastructure (GCI) effort

■ Current Task

- Use GCI registries as description of member/participating organization capabilities
- Focus on harmonization

GEO Task Approach

- Assess current capabilities
 - Review and characterize contents of GEO registries
 - Include assessment of other well-known capabilities that may not yet be in registries
 - Generate initial report
- Analyze results
 - Look at level of community adoption of various approaches
 - Identify barriers to integration/interoperability/interuse
- Develop set of GEO recommendations
 - Goal is convergence to harmonized set of standards
 - Based on best practices and community directions

GEO Task Plan

- Form Task Team
- Develop Review Plan
 - Define assessment scope and review assignments
- Conduct Initial Assessment
 - Perform reviews and report/discuss with task members
- Publish Assessment Report
 - Completes Phase I of task
- Develop and Publish Recommendations
 - Phase II will require additional planning

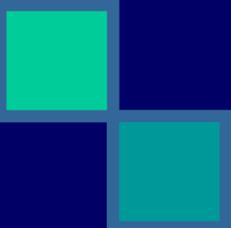
GEO Task Status

- GEO Call for Participation to GEO 2009-11 Work Plan
 - Co-Leaders
 - CEOS/NOAA - Ken McDonald (POC)
 - USA/FGDC/GSDI Secretariat - Doug Nebert
 - Contributors
 - Australia/Geosciences Australia - Chris Body
 - CEOS/CNES/INRA - **Frédéric Baret**
 - EC/EU-project HYPOX - Michael Diepenbroek
 - EC/EuroGEOSS - Massimo Craglia
 - Germany/DLR DFD-IT - Eberhard Mikusch
 - IEEE - Steven Browdy
 - Japan/GSI - Toru Nagayama
 - WMO/OBS/WIS-DM - Omar Baddour
- First telecon to be held in late May/early June

WGISS DMPH Project

- CEOS WGISS selected as PoC because of its recognized expertise in this area
- WGISS-Exec directed formation of a new Project to coordinate contribution
- NOAA and NASA drafted a ToR and call for participation
- Kick-off telecon held on April 20

WGISS Project vs. GEO Task



■ Perspective

- WGISS focus is on satellite data and their related components and services
- GEO includes all Earth observations

■ Scope

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- GEO task concentrating on contents of GEOSS registries
 - WGISS will provide not only input on harmonization of contents but also recommend improvements to the GCI for discovery, search and access to remote sensing data and services
 - WGISS will consider how to make contributions

WGISS Participants

- Co-Leads
 - Ken McDonald/NOAA
 - Yonsook Enloe/NASA
- Members
 - Chuang Liu/CAS
 - Lola Olsen/NASA
 - Tom Holm, Lyn Oleson/USGS
 - Michael Burnett/NASA
 - Wyn Cudlip/BNSC
 - Karen Moe/NASA
 - Pakorn Apaphant/GISTDA
 - WGCV (Greg Stensass -TBC)

Plan and Progress

- The WGISS DMPH Project will
 - Provide support for GEO Task DA-09-01b
 - Provide an assessment of the content of the GCI registries and
 - Provide input on how to improve the discovery of resources, search for data products, and access to data using GEOSS
 - Provide inputs to improve the functioning of GEOSS
 - Work with other GEO tasks – IOC Task Force, AIP, Data Sharing, Data Integration & Analysis, Standards Interoperability Forum – and provide inputs
 - Identify multiple ways to give the WGISS inputs to GEO for maximum impact

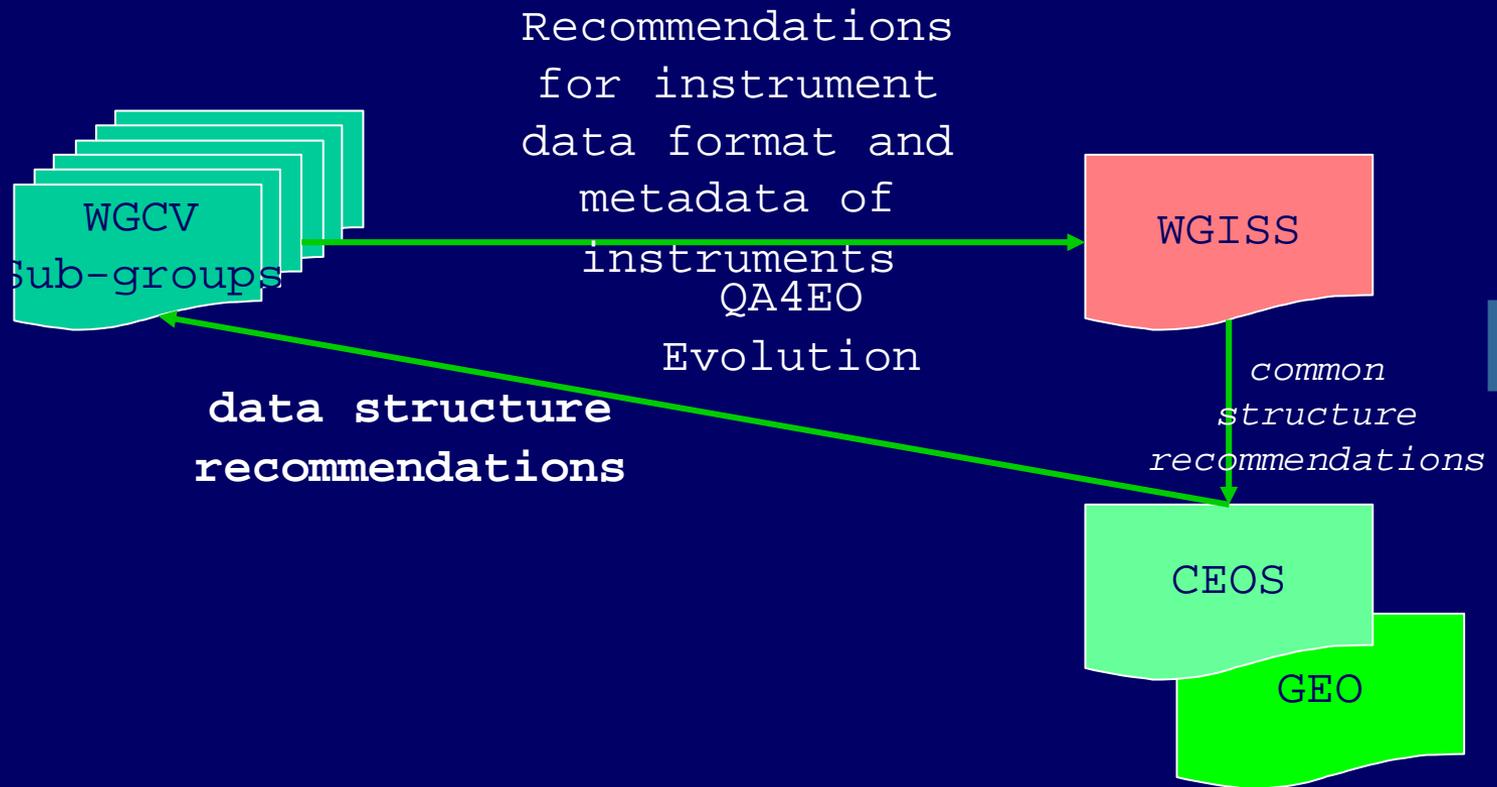
Plan and Progress

- Accomplishment
 - Gave initial list of recs to Ivan Petiteville to provide inputs to the IOC Task Force report (May 14th)
- Way Forward
 - WGISS will produce written recommendations to improve GEOSS twice a year after discussion at WGISS meetings - (Oct & May 2009 & 2010)
 - WGISS will produce an interim assessment in Nov 2009 and an initial assessment on May 2010 of the contents of the GCI registries

The role of WGCV? (Proposed by WGCV)

- WGCV may provide via the QA4EO framework format and metadata recommendations related to cal val pertaining to WGCV subgroup instruments as examples of information required for product harmonization.
- This task provides a reference point related to metadata, format, and data policy that will be needed to ensure that QA4EO provide the means to facilitate data harmonisation and bias evaluation through the establishment of reference standards and best practises.
- WGCV will use the lessons learnt in this task to guide the evolution of the QA4EO guidelines.

DA-09-01b_2



DA-09-01b_2 (proposed by WGCV)

- The hope for 1b would be that subgroups provide recommendations for instrument data format and metadata of instruments that are used within the subgroup.
- These cal/val subgroup examples could be used as potential data structure recommendations for WGISS to use to create common structure recommendations for CEOS and GEO.
- The next step for WGISS might be to show harmonization via utilizing multiple data types to create a product; or show data band integration from difference instruments to create an integrated product.
- Then may be some harmonization tools
- This could be useful for calval and WGISS
- G. Chander is doing some calval tools for one instrument class

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