

Meeting Plan

GEO Water Cycle Capacity Building Workshop 30 November to 4 December 2009, Lima, Peru

This Planning Document for the Lima Peru provides information in three specific areas, namely: 1) Background and Objectives of the Workshop, 2) Workshop Agenda and 3) Logistics.

BACKGROUND AND OBJECTIVES:

A GEO (Group on Earth Observations) workshop/symposium is being planned to identify and to strengthen or implement initiatives whereby Earth Observations and associated Decision Support Systems can be better utilized in managing water resources. It will advance a number of international initiatives that focus on Latin America and the Caribbean through the more widespread application of Earth Observations data and tools. In addition to GEO, other primary organizers for the workshop include data providers who wish to expand their user base and specific programs such as Climate and Ice, the UNESCO HELP program, the GEWEX/ CEOP/ La Plata Basin program. that wish to accelerate their progress by interacting with GEO.

The primary objective of this activity is to inform national water resource managers and those who provide information to them on their new capabilities and services for using Earth Observations that could be of benefit to water resource managers. In addition, individual agencies will demonstrate the value of their information and decision support tools such as GLDAS, for improved decision making and will broaden the user base for such tools. The workshop will also provide feedback on the national needs for Earth Observations, GEOSS portals and information systems in terms of the water management problems and the current systems in place for processing and analyzing information. Finally, the workshop will promote discussions that will formalize these activities within the GEO program into a framework for the Americas possibly modeled after initiatives such as the Asian Water Cycle initiative or TIGER or some other related program.

Specific objectives for the workshop/symposium include:

- To develop an inventory of the national and regional data needs and data infrastructure in Latin America and the Caribbean.
- To introduce representatives of countries in Latin America and the Caribbean to the tools that are available for analysis through GEO and GEO members.
- To develop a plan for a program of Capacity Building in the water sector for the countries of Latin and Caribbean America and a framework to support “North-South” and “South-South” support and collaboration.

Outputs:

- A workshop report that summarizes the needs and capabilities for Earth Observations in Latin America and the Caribbean.
- Initiate at least two new north-south or south-south initiatives through the interactions between experts at this workshop.

- Identification of a core group of experts from Latin America and the Caribbean with sufficient understanding to access data for utilization of Earth Observations for water management applications.
- A program framework for coordinating GEO-related capacity building activities in Latin America and the Caribbean.

Draft Agenda

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30 November 2009

09:00 – 10:00 Welcomes

- CONIDA, GEO, NASA, NOAA/WMO, Canadian GEO, US Aid, UNESCO
- Purpose of the Workshop

10:00 – 10:20: Break

10:20 – 12:10 Background to Water Cycle activities

- GEO Overview
- GEO Capacity Building
- IGWCO COP and Capacity Building in the Water Sector
- CONIDA Overview
- Peruvian water issues
- GEO Water programs in other regions INPE
- Introduction to CONAE

12:10 – 13:30: Lunch, Reconvene at 13:30

13:30 – 17:30: Integrated Water Resources Management and Earth Observations (includes a midafternoon break)

- Overview of Water Management Issues in Latin and Caribbean America
- Overview of elements of a Prediction system <NOAA>
- CEOP and the use of Earth Observations in closing the water budget and in Decision Support Systems
- The use of Earth Observations in a HELP Basin
- The Panama water resource management system The use of Earth Observations for Water Management in the La Plata Basin
- Addressing Water Management with improved DSS
- Groundwater applications
- Transboundary Rivers
- WMO Data Systems for monitoring water resources
- (Additional Talks planned)
- Discussion

1st December 2009**09:00 – 10:30 Climate Change impact on Water Resources and the role of Earth Observations**

- Background on the Climate and Ice Workshop
- Recommendations arising from the Climate and Ice workshop
- Programs for monitoring climate change
- The role of Earth Observations in tracking Climate change
- Examples of the use of Earth Observations to track trends in water supply arising from climate change,
- World Bank study on glaciers
- (Additional Talks planned)

10:30 – 10:45 Break**10:45 - 12:15 The use of Earth Observations in Adapting to Climate Change**

- The impact of glacier retreat on water resources
- The impact of rising sea level on coastal water resources
- UNESCO programs dealing with climate change
- (Additional Talks planned)
- Discussion

12:15 – 13:30 Lunch, Reconvene at 13:30**13:30 – 17:30 Extremes (Floods and Droughts) (includes time for a break)**

- Applications of SERVIR in flood situations
- The GEO Caribbean flood project
- INA's use of remote sensing data in flood monitoring and cleanup
- The Convention on Disasters and its application to flooding events
- Flash Flood prediction systems
- WMO programs dealing with flood disasters and disaster risk reduction
- Drought monitoring (Extending NADM to the Americas)
- Experiences from the Disasters Convention
- (Additional Talks planned)
- Discussion

2 December 2009**09:00 – 10:15 Water Quality Issues**

- Overview of the use of remote sensing in monitoring water quality
- GEMS/Water
- (Additional Talks planned)

10:15 – 10:30 Break

10:30 – 12:15 and 13:30 – 15:45 Short overviews of Water Information Needs and national data sources and services throughout Latin America and the Caribbean. (will continue in the afternoon with lunch between 12:15 - 13:30)

Argentina*	Honduras
Barbados*	Jamaica
Belize	Mexico
Bolivia	Netherlands Antilles
Brazil*	Nicaragua
Chile	Panama
Colombia	Peru
Cook Islands	Republica Dominicana
Costa Rica	Trinidad and Tobago
Ecuador	Uruguay
El Salvador	Venezuela
Guatemala	Virgin Islands
Haiti	
Others to be added	

15:45 – 16:00 Break**16:00 - 17:30 Breakout Groups and Plenary Discussions**

3 December 2009**0900 – 10:30 Educational and Training Opportunities to enable expanded use of Earth Observations and Decision Support Systems in the Water Resources Sector**

- CATHALAC
- ITC
- COMET
- Other Centres?
- Discussion

10:30 – 11:00: Break**11:00 – 12:15, 13:30 – 17:00 Accessing Earth Observations and Decision Support Tools (with lunch from 12:15 - 13:30)**

- GEO Portals
- GEONETCast
- SERVIR
- Canadian Space Agency services
- WMO WIS
- CEBERS
- INPE Services
- CONAE Satellite services
- NASA Tools
- ITC Services
- NOAA Data Collection System (DCS)
- (Others to be added)
- Discussion

4 December 2009

On December 4 there will be two breakout groups for individuals who wish to have more intensive training on GEONETCast and SERVIR.

Also on December 4 there will be a working group meeting for agency and country representatives to develop a Capacity Building program related to Earth Observations and Water Resources management for the region. The meeting will be open to one representative per country, one per space agency and one per international program.

Logistics

Attendees should fly in to the Lima Airport and then take a taxi to their hotel. (At this stage, a meeting hotel has not been arranged so participants should feel free to make their own arrangements).

Suggested hotels include:

CADENA DE HOTELES SAN AGUSTIN
LIMA - CUSCO
Telf. Central 203-2842 o 424 9438 anexo 212
RPM #566244
eventos@hotelessanagustin.com.pe
www.hotelessanagustin.com.pe

Hotel El Marques
Chinchón 461
San Isidro
Lima 27, Perú
Telf: 442-0046 - 442-1197
Fax: (51-1) 442-0043
reservas@hotelesmarques.com
reservas@hotelmarques.com
elmarques465@terra.com.pe
www.hotelesmarques.com

St. Arequipa 3940 Miraflores, Lima- Peru
Phones : (511) 222-2601 / (511)221-0516
Email : sanblas@terra.com.pe
Reservas : reservas@sanblashotel.com

For other hotels see:

<http://www.masitravel.com/Peru-hotels-hoteis-hoteles-in.asp?ciudad=Lima&idioma=sp>

The CONIDA facility where the meetings will be held is located in central Lima and is accessible to restaurants as well as the above hotels.