

IGWCO Meeting Summary

March 15, 2011
Tokyo, Japan

The meeting was held at the University of Tokyo under very trying circumstances for the people of Japan.

In spite of this 34 people from 15 countries participated.

Review of progress on the GEO workplan:

Working Well:

WA-06—02B

WA-06-02C?

WA-06-07B

WA-06-07C

WA-08-01D

WA-08-01E

WA-08-01F?

Need Enhancement:

WA-06-02A

WA-06-02D

WA-06-07A

WA-08-01A

WA-08-01B

WA-08-01C

WA-08-01G

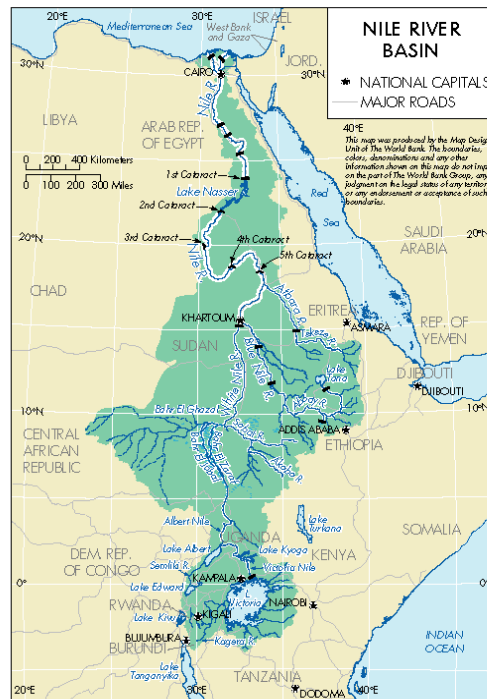
Informal assessment of the status of WA-06-02 Activities

Task	Agency/Project/Individual	Type of Initiative	Level of Activity
WA-06-02A	Project/Individual (US, Intl)	Research in an operational environment	Primarily supports other projects (reporting mech.)
WA-06-02B	Project (Canada, links to international)	Research/Operations	New area Could enhance op services (Active – no steady funds)
WA-06-02C	Project (Swiss led, EU project) Links with Asia and South America	Research	New area (Implementation phase)
WA-06-02D	Project (US) Few outside links	Research but with significant participations of operations	Large activity in the project Limited outside

Potential Opportunities for the AfWCCI have been identified to Showcase the value of GEO concepts and practices

The Nile Basin

- ◆ Burundi
- ◆ D.R. Congo
- ◆ Egypt
- ◆ Eritrea
- ◆ Ethiopia
- ◆ Kenya
- ◆ Rwanda
- ◆ Sudan
- ◆ Tanzania
- ◆ Uganda



Characteristics

- ◆ Population 300 million,
- ◆ Poverty,
- ◆ Rapidly growing Population – stress on land

Opportunities

For win-win Cooperative development (food production, energy, transport, industrial growth, env. Conservation,...

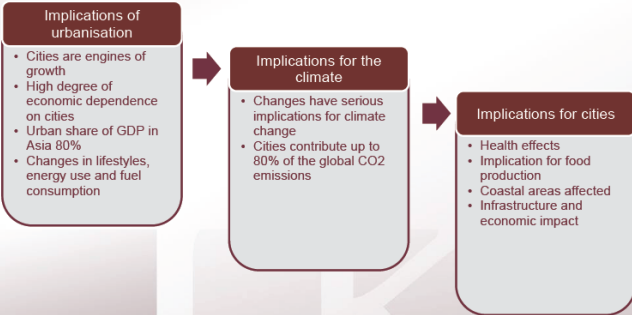
Launch of Centre of Hydrologic and Spatial Information for Latin America and the Caribbean (CIEHLYC)

Needs and interests:



- Comprehensive Watershed Management for Latin America and the Caribbean
 - Glacier dynamics
 - Land use changes
 - Natural disasters of hydrometeorological origin (slides, fires, floods)
 - Quality of soils (erosion, salinization and desertification)
 - Identification of ecosystem loss and areas for reforestation

Relationship between Climate Change and Urbanisation



Therefore in order to fight climate change, it is important to study the role played by urban areas

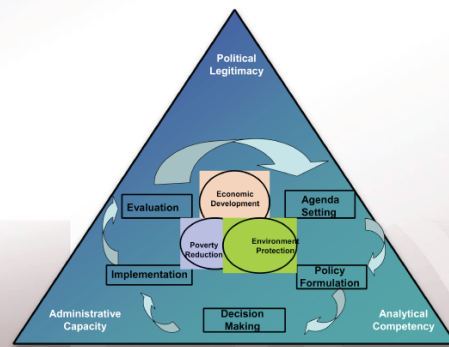
What is IPSD?

- Integrated Policy-Making for Sustainable Development (IPSD) is a process by which governments translate the objectives of sustainable development into policy actions in a given policy environment
- Three features of IPSD:
 - It aims at integrating three objectives of sustainable development: economic development, poverty reduction and environmental protection
 - It systematically places sustainable development in the whole policy process
 - It aligns policy actions for implementing sustainable development with critical components in policy environment ("strategic triangle" analysis)

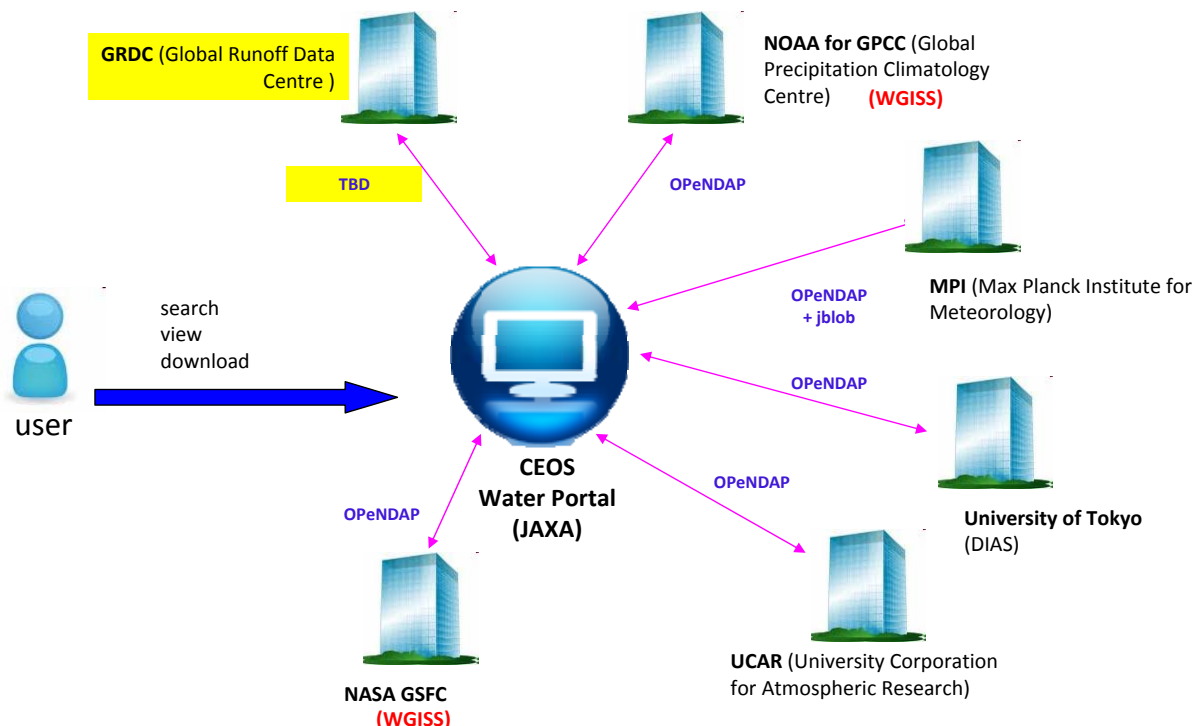
Achieving a common ground for science and policy

- Current tensions between the two worlds arise mainly due to different language, operational issues, and value systems.
- How does the scientific enterprise operate?
 - objectivity
 - repeatability
 - falsifiability
 - peer review
- Public (and policy makers') perception of science and technology vastly different from the way those enterprises operate
- How does the policy process work?
 - special interests
 - public interest
 - suboptimal results
- Scientists' impatience with the policy process and policymakers' tendency to wait till receiving scientific "certainty".
- Mechanisms for receiving impartial science and technology input for policy process is key for addressing many 21st century challenges.

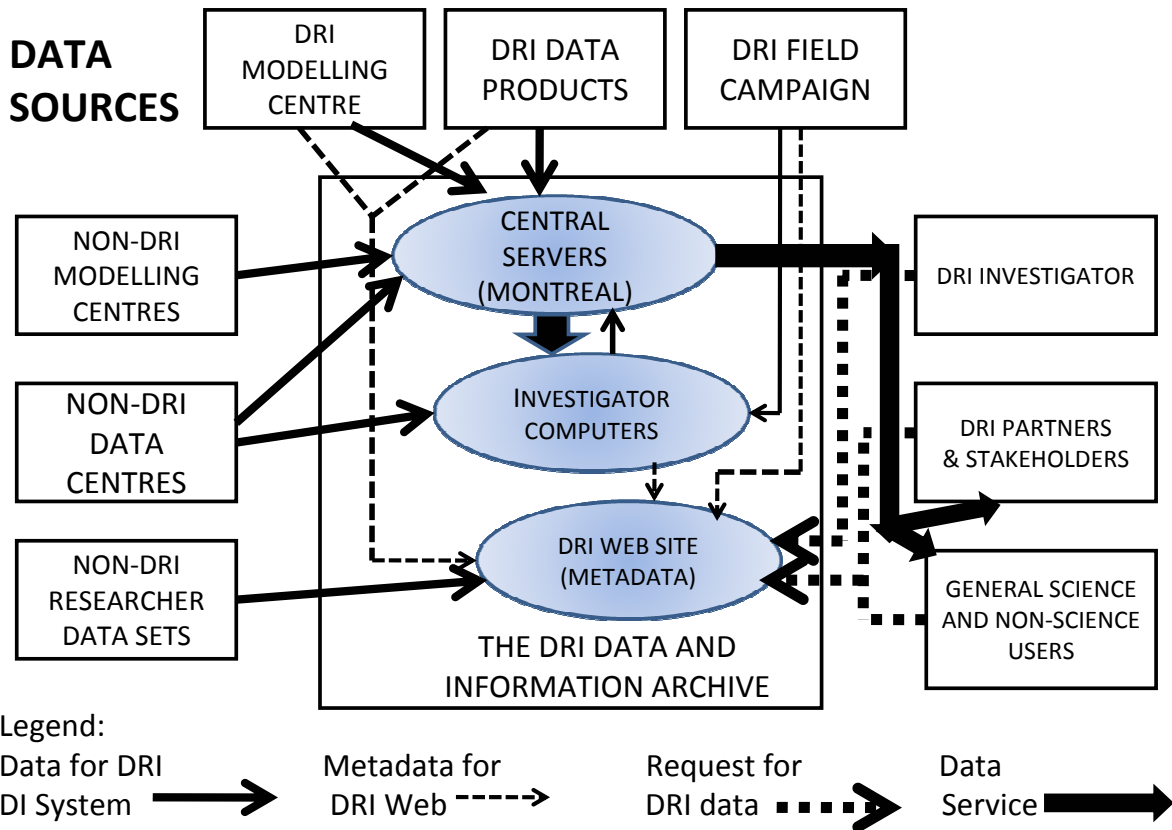
Integration of Policy Objectives, Policy Environment and Policy Process



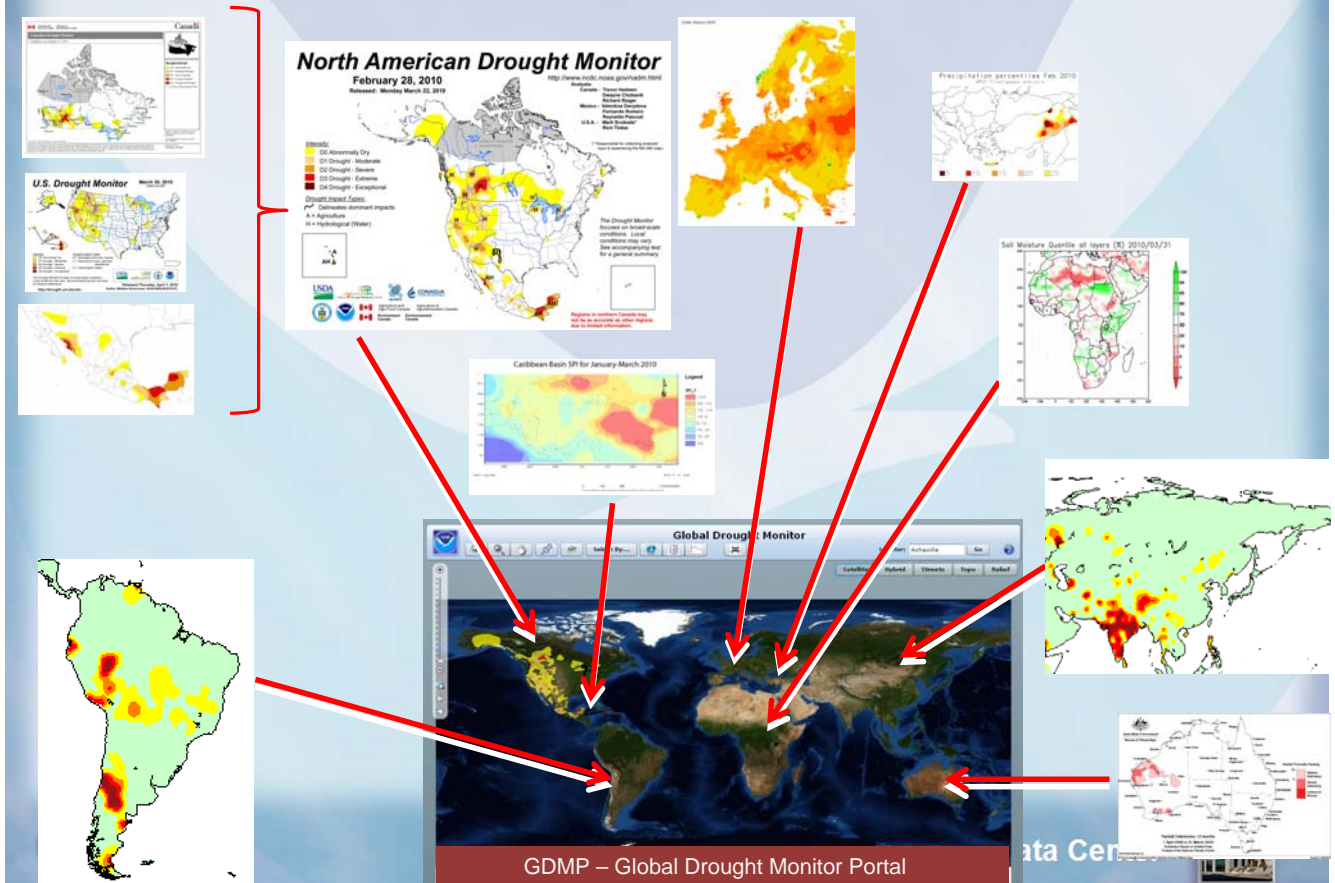
Development of the GEO Water Portal by JAXA (will serve both IGWCO and GTN-H interests)



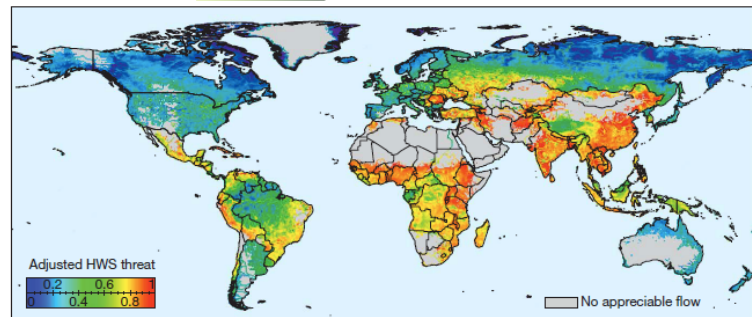
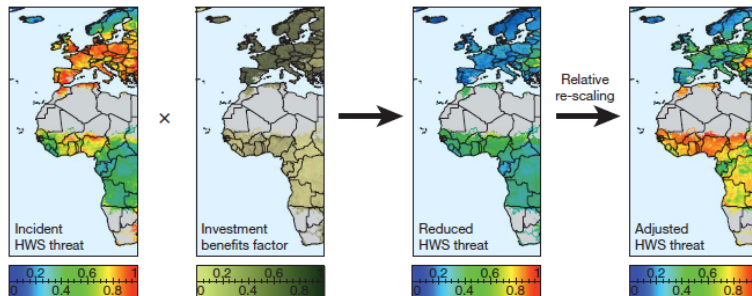
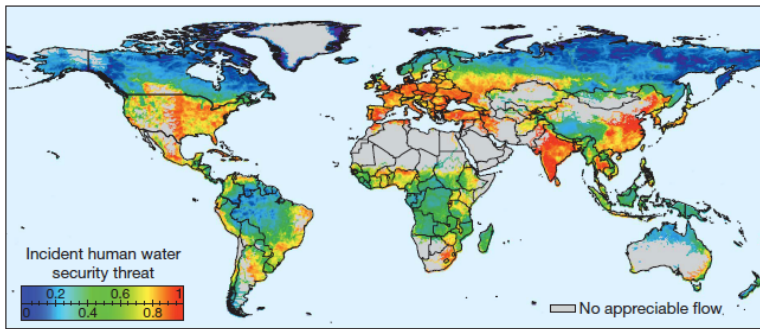
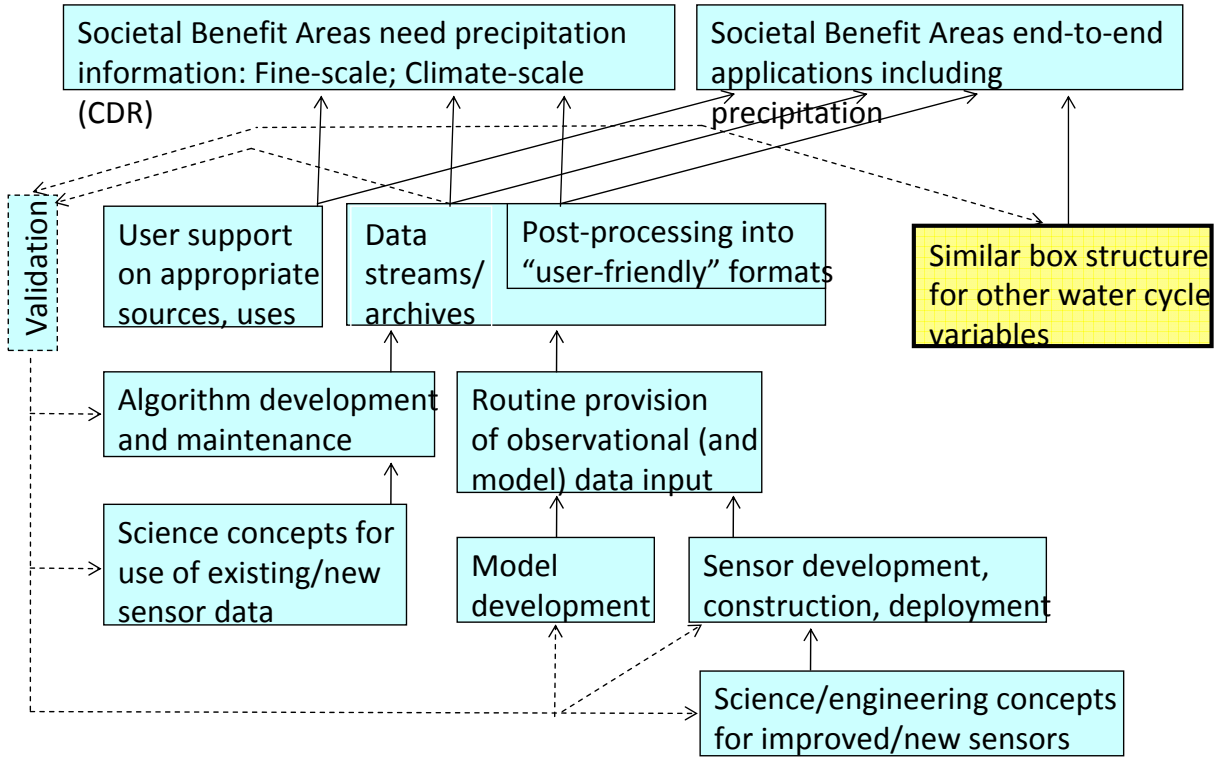
DRI data legacy data system (part of a GEO CFP) has been developed to bring DRI data and research results to the user community.



A GDEWS Conceptual Framework – An Integration of Continental / Regional Drought Monitors



Concepts for Precipitation in 2012-15 GEO Workflow Diagram



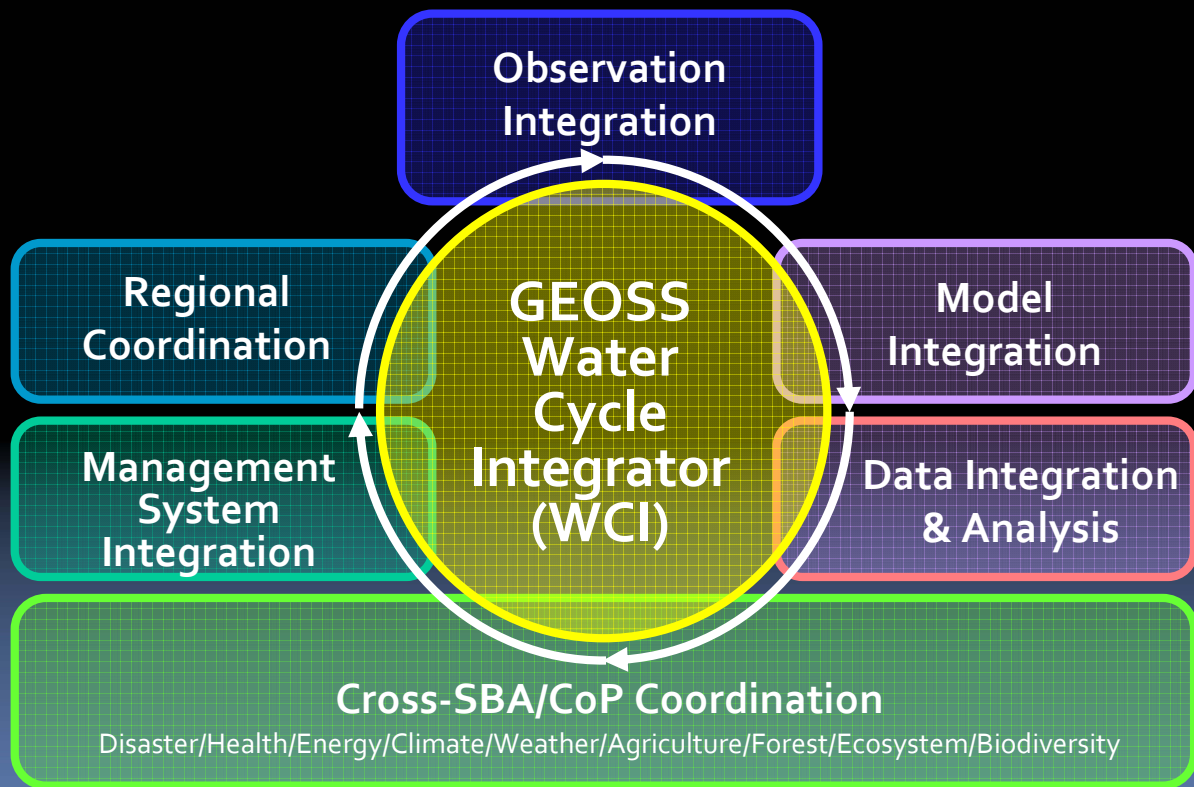
Attenuating the incident HWS Threat through beneficial engineering and technology investments (I_b):

- Access to clean water
- Moderate/"sustainable" water use
- Flow stabilization
- Access to river corridors

$$T' = T(1 - I_b)$$

normalized, T' , T , I_b

Integrated & Coordinated Approach for Societal Benefit Creation A CoP of CoPs



Recommended Actions:

- 1) IGWCO should develop a short paper on its support for IPCC in areas related to climate and water.
- 2) IGWCO should finalize the inputs required for the Deliverable on Information Systems under the Water SBA and register its interest in other topics.
- 3) Discussions should be held between the AWCI and the CIEHLYC to explore ways to accelerate the development of the CIEHLYC activity.
- 4) IGWCO should work with GTN-H to develop an integrated product that mobilizes both the capabilities of integrated products in IGWCO (probably precipitation) and the data center holdings of GTN-H (e.g. GRDC)
- 5) IGWCO should work with GTN-H, FAO, USDA, WMO and others to develop a deliverable related to Evapotranspiration.

- 6) JAXA (with assistance from WMO) will approach the GRDC (and other potential data centres) to develop an agreement.
- 7) IGWCO will promote the use of indicators in the 2012-2015 work plan Including the idea of a validation exercise through IGWCO regional Activities.
- 8) A joint IGWCO/WMO review of basin specific projects should be undertaken To see where these projects could be enhanced by IGWCO resources.
- 9) IGWCO should develop a portfolio of success that can be taken to ODAs to seek support for projects in different underdeveloped regions.

10) GEMS has substantial data resources for assisting IGWCO water quality activities to develop an integrated data product. The water quality working group Should be encouraged to work more closely with this UNEP activity.

11) IGWCO should develop a plan for approaching the ODAs with an Integrated data delivery system.