

The 5th Asia-Pacific GEOSS Symposium GEOSS/Asia Water Cycle Initiative (AWCI) Parallel Session

Changes in water resources from climate change in Asian countries arising from melting glaciers, increased floods, more severe droughts, and impacts of sea level rise, amongst others, will impact significantly on national social and-economic development and on the environment in unprecedented ways. In response, numerous initiatives, programs and projects to promote climate change adaptation for water management were reported by the 16 countries at the symposium.

Although climate change adaptation requires socially and economically efficient and sustainable management of the world's limited supplies of freshwater, this precious resource cannot be managed unless we know where the water is, its quantity and quality, and how its variability will change in the future. This knowledge base relies upon our ability to measure and monitor precipitation, water quantity and quality and our continued efforts to improve our physical, chemical, biological, and ecological understanding of the water cycle.

GEOSS Asian Water Cycle Initiative (AWCI), including four working groups, flood, drought, water quality and climate change, has been building a regionally cooperative framework by involving experts from 20 countries in sharing data, models, experiences and knowledge and implementing capacity development programs. This parallel session will discuss about further convergence and harmonization of observational activities, analytical and down-scaling techniques, interoperability arrangements, and effective and comprehensive data management as the most fundamental elements that can mobilize the efforts by GEOSS/AWCI to create societal benefits.

Provisional Agenda

Chair: Prof. Toshio Koike, The University of Tokyo
Prof. DegHyo Bae, Sejong University
Dr. Rick Lawford, IGWCO Lead

Introduction

- 09:30-09:45** **1. Opening GEOSS/AWCI Session**
Opening Address by GEO, MEXT, APN(tbc)
- 09:45-10:10** **2. AWCI Activity Reports** (5min. Each)
2.1 Summary Report including Updates of the Demonstration Projects
2.2 Working Group Reports (Flood, Drought, Water Quality, Climate Change)
- 10:10-12:00** **3. Short country reports on “Climate Change Adaptation”** (5min. each)
GEOSS/AWCI participating countries: Australia, Bangladesh, Bhutan, Cambodia, China, India, Indonesia, Japan, Korea, Lao, Malaysia, Mongolia, Myanmar, Nepal, Pakistan, Philippines, Sri Lanka, Thailand, Uzbekistan, Vietnam
- 12:00** **Lunch**
- 13:00 – 15:10** **4. Collaboration with Global-Regional Activities** (10min. Each)
- 13:00 4.1 IGWCO perspective
 - 13:10 4.2 GTN-H perspective
 - 13:20 4.3 Space Agencies: JAXA, ISRO, GISDA (tbc)
 - 13:50 4.4 ODA Agencies: WB, JICA, ADB (tbc)

14:10 4.5 Capacity Building Programs: APN(tbc), UNU, JAXA, ICT
14:50 4.6 Data Integration: CEOP-AEGIS, DIAS
15:00 4.7 Scientific progresses: MAHASRI results in JMSJ special issue – Prof. J.
Matsumoto

15:10– 16:30 5. Breakout Discussion for Implementation (coffee during the breakout sessions)

5.1 Long-term Data Acquisition, Archiving, Application - Sustainability
5.2 Severe Extreme Events – Intensified Collaboration
5.3 Specific Requirements for Satellite Observations

16:30 – 17:30

6.Summary

16:30 6.1 Reports from Breakout Discussion
16:50 6.2 Discussion
17:20 6.3 Closing