



# Climate Change Working Group Activities

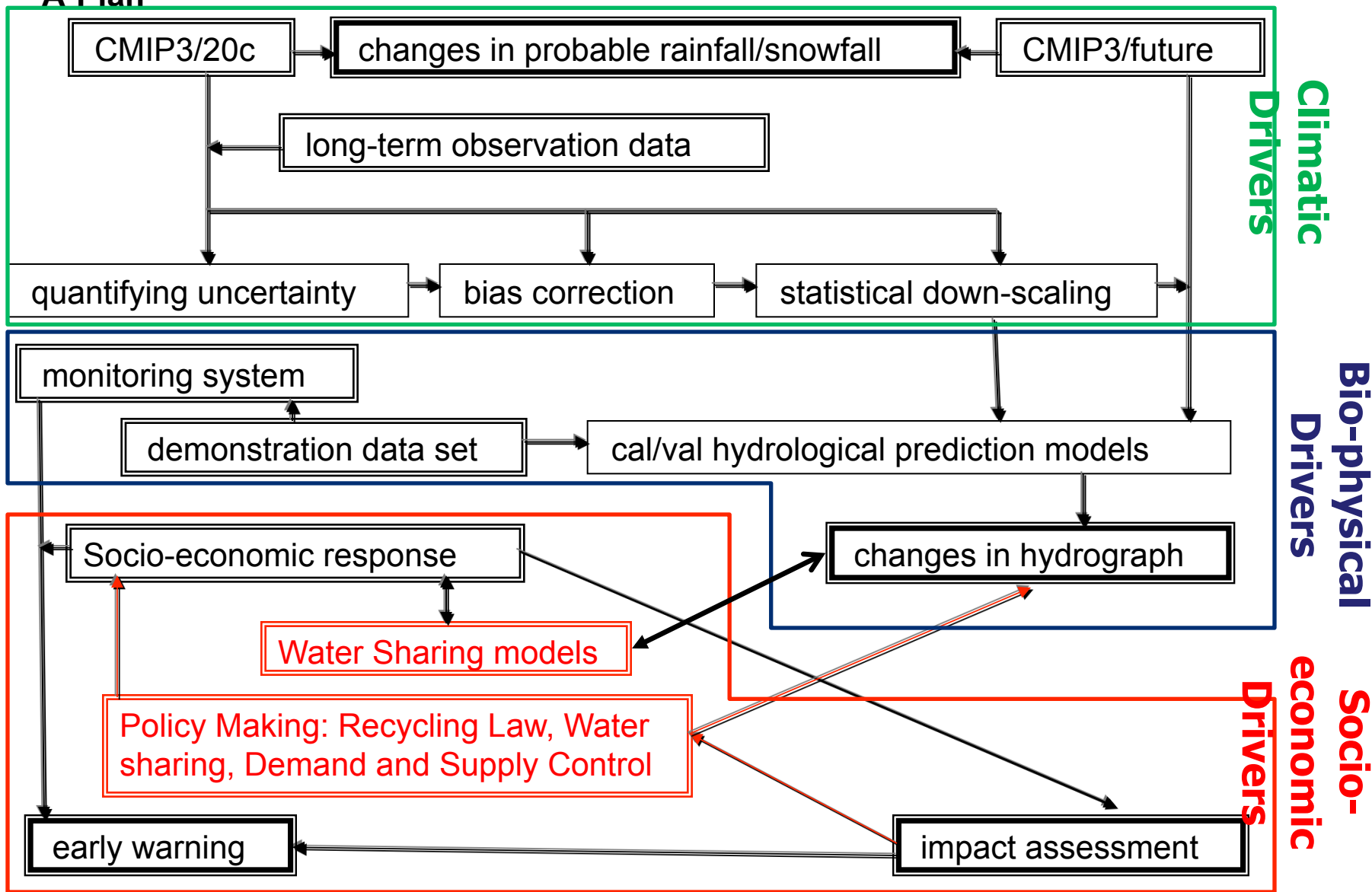
**Deg-Hyo Bae (Korea)**  
**Md. Mafizur Rahman (Bangladesh)**

# Review of CC Working Group Activities

- 5<sup>th</sup> Meeting of the GEOSS/AWCI ICG (Tokyo, Dec. 2009)**
  - Issued the **importance of local hydrologic data** for global climate change on water resources
  
- 6<sup>th</sup> Meeting of the GEOSS/AWCI ICG (Bali, Mar. 2010)**
  - Proposed **activities focusing on CC impact assessment in flood and drought problems**

# Implementation Planning

## A-Plan



# **Requirements for Climate Change Assessment and Adaptation**

- **Assessment of Changing Hazard**  
usable information derived from climate projection models
- **Assessment of Changing Hydrology**  
integrated hydrological models with self-running capability
- **Leading to Public Awareness and Effective Actions**  
data integration for getting comprehensive

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  - Proposed **activities focusing on CC impact assessment in** flood and drought problems
  
- **AWCI training course for the Climate Change (Tokyo, Mar. 2011)**
  - Training **on CC impact assessment in** flood and drought problems
    - **Climate Change Impact Assessment on Water Resources**
    - **GCM Selection, Bias Correction, Downscaling**
    - **Hydrological Modeling**
    - **Case Study**

# Program of the AWCI training course for the Climate Change (Tokyo, Mar. 2011)

- **Overview of Climate Change Impact Assessment on Water Resources**
  - General approaches for climate change impact assessment
  - Uncertainties of climate change impact assessment
  - MME-based climate change impact assessment
- **Multi-GCM Analysis**
  - GCM Selection
  - Bias Correction
  - Statistical Down Scaling
- **Hydrologic Modeling**
  - Review of Hydrologic Model
  - Proposed Hydrologic models for CC Study
  - Hydrologic Impact Assessment Process
- **Case Study : SURR Model**





# Progress Report on APN Project

## □ Title of project

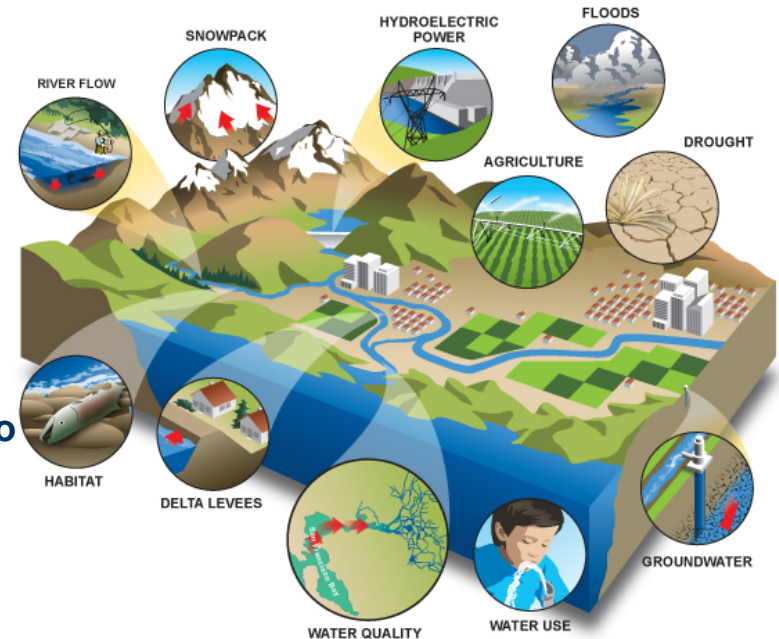
- Climate change impact assessment on the Asia-Pacific water resources under GEOSS/AWCI

## □ Project period

- 2010.10.15 - 2012.10.14 (2 years)

## □ Motivations of this study

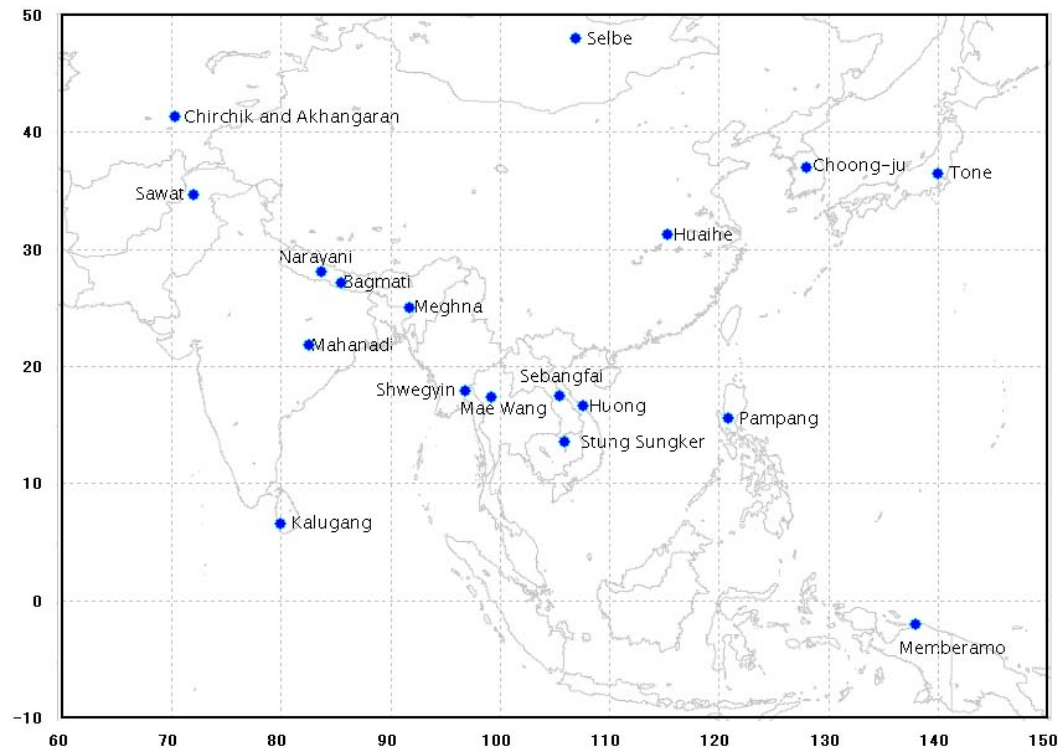
- **Asia monsoon** plays an important role on global water cycle
  - Provides substantial rainfall and water resources
  - Provides many benefits, but causes serious water-related disasters
- **Various reasons for the disasters**, but the current climate change makes difficult to manage them



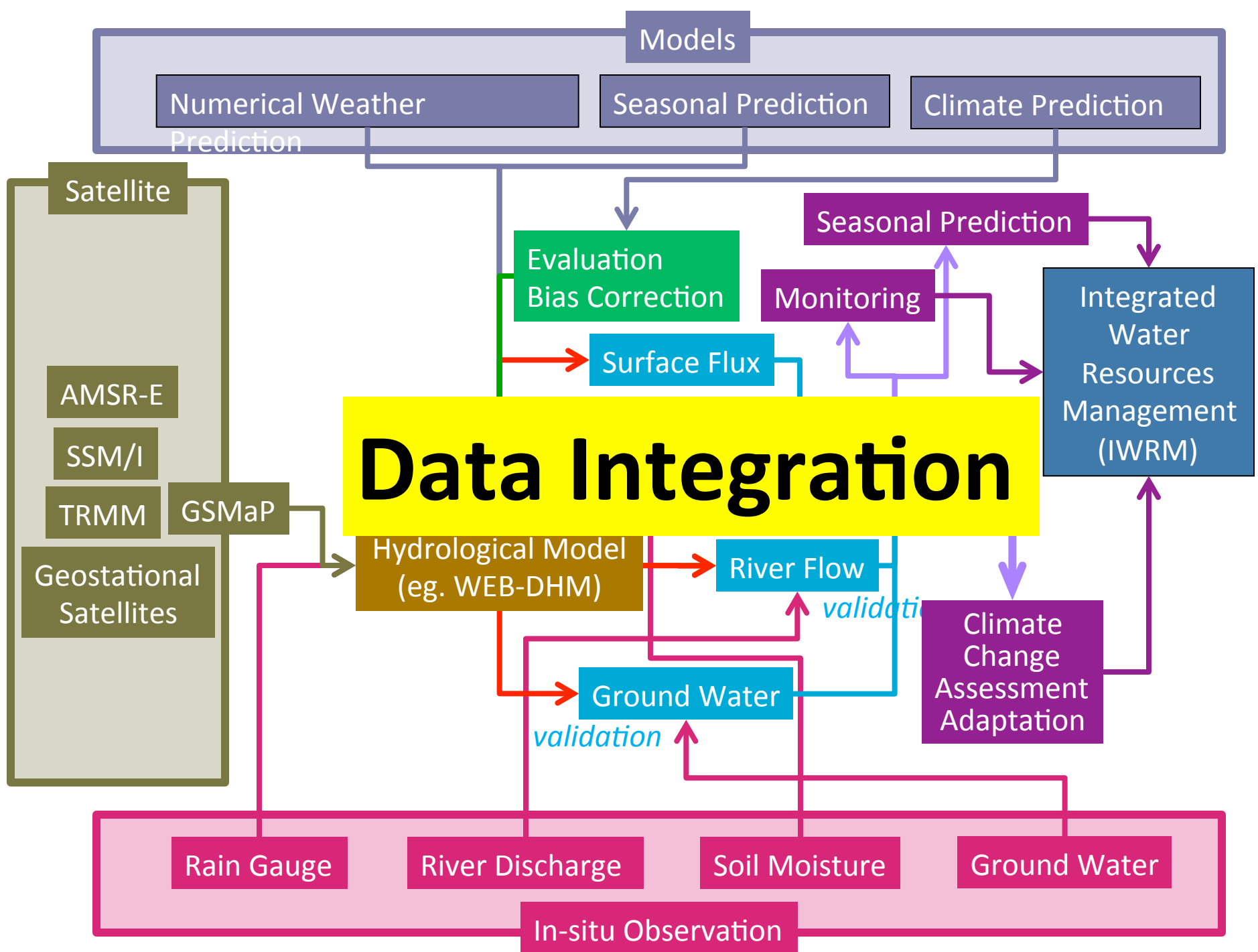
[www.climatechange.water.ca.gov](http://www.climatechange.water.ca.gov)

## The objectives

- To evaluate the climate change impact assessments on water resources over the Asia-pacific regions joining GEOS/AWCI
- To promote the capacity building for climate change impact assessment technology







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- **5<sup>th</sup> GEOSS Asia-Pacific Symposium (Tokyo, Apr. 2012)**
  - **CC and Water Nexus for Implementation Planning**



**mafizur@gmail.com**