



Climate Change Working Group Activities

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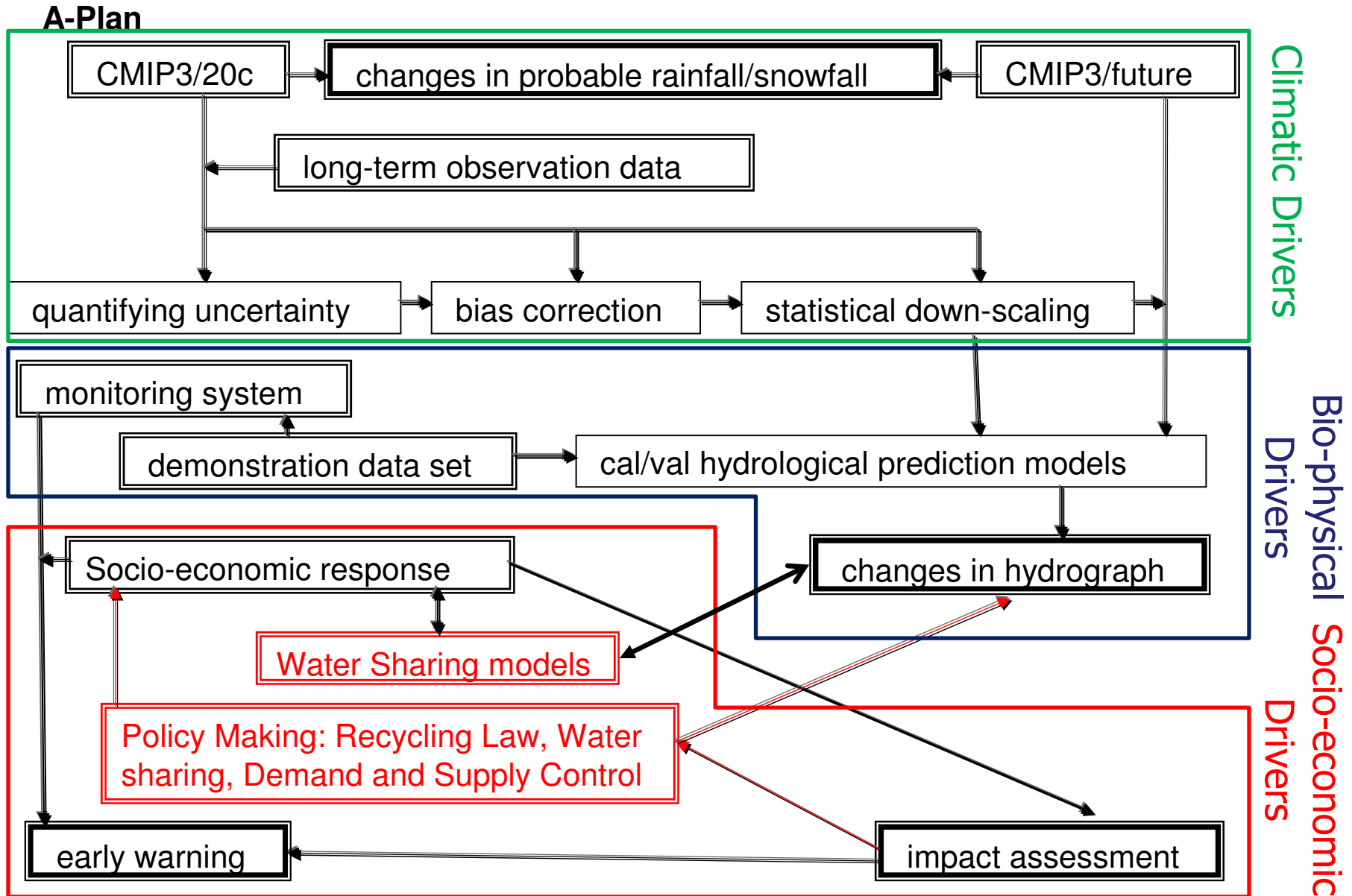
5th GEOSS AP Symposium, Miraikan, Tokyo, WG1, AWCI, 3rd April, 2012

Review of CC Working Group Activities


- 5th Meeting of the GEOS/AWCI ICG (Tokyo, Dec. 2009)**
 - Issued the **importance of local hydrologic data** for global climate change on water resources

- 6th Meeting of the GEOS/AWCI ICG (Bali, Mar. 2010)**
 - Proposed **activities focusing on CC impact assessment in flood and drought problems**

Implementation Planning



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 knowledge
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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

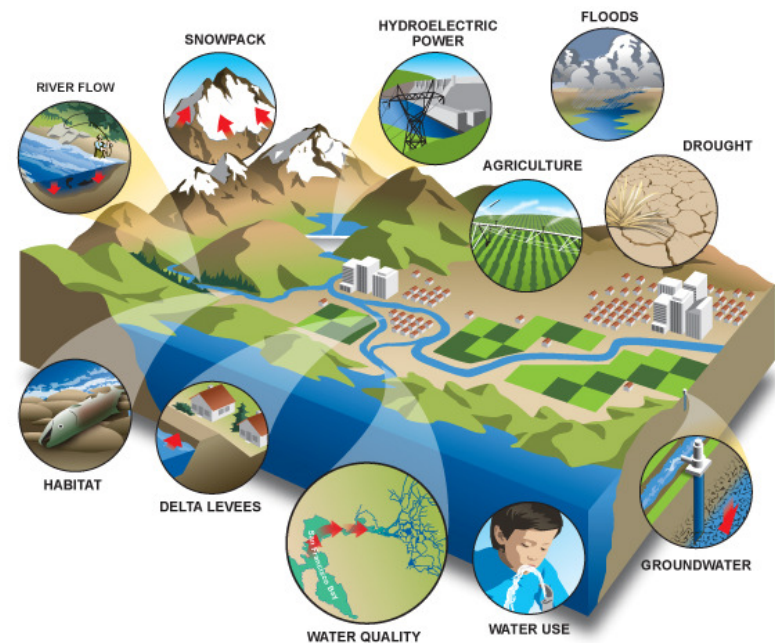
- Climate change impact assessment on the Asia-Pacific water resources under GEOSS/AWCI

□ Project period

- 2010.10.15 - 2012.10.14 (2 years)

□ Motivations of this study

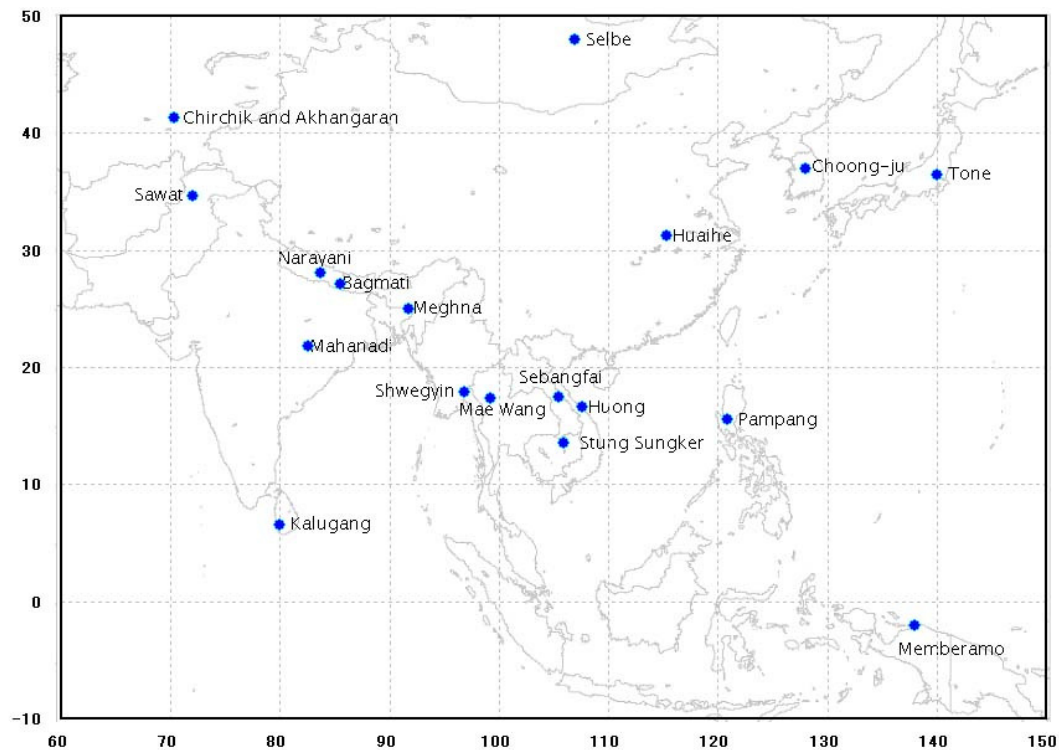
- **Asia monsoon** plays an important role on global water cycle
 - Provides substantial rainfall and water resources
 - Provides many benefits, but causes serious water-related disasters
- **Various reasons for the disasters**, but the current climate change makes difficult to manage them

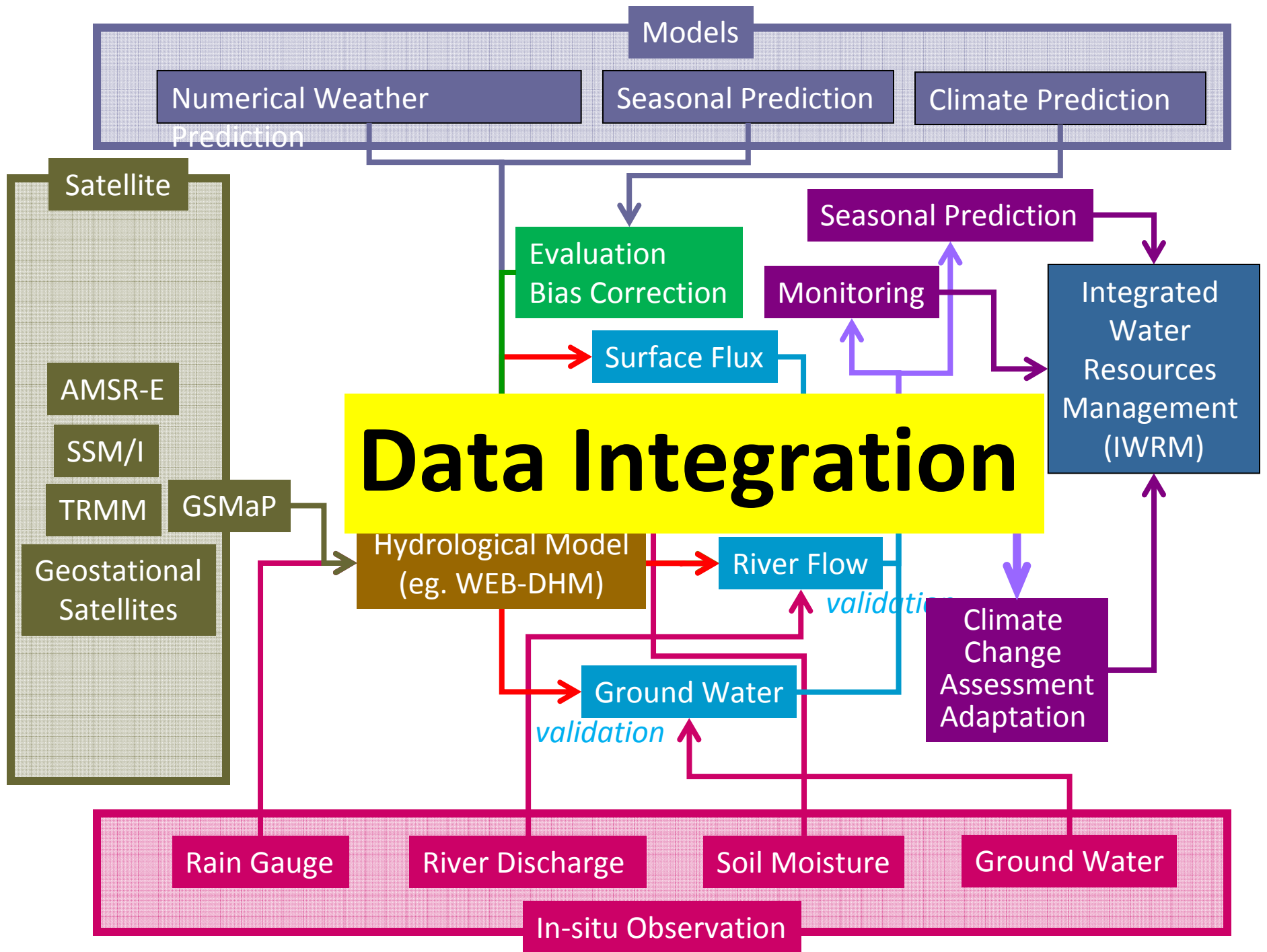


www.climatechange.water.ca.gov

□ The objectives

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





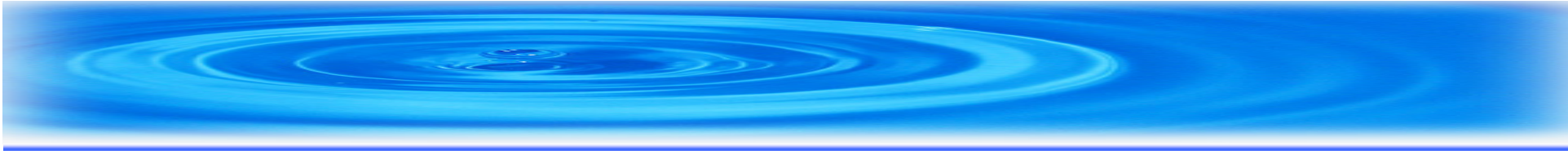
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- **5th GEOSS Asia-Pacific Symposium (Tokyo, Apr. 2012)**
 - **CC and Water Nexus for Implementation Planning**



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