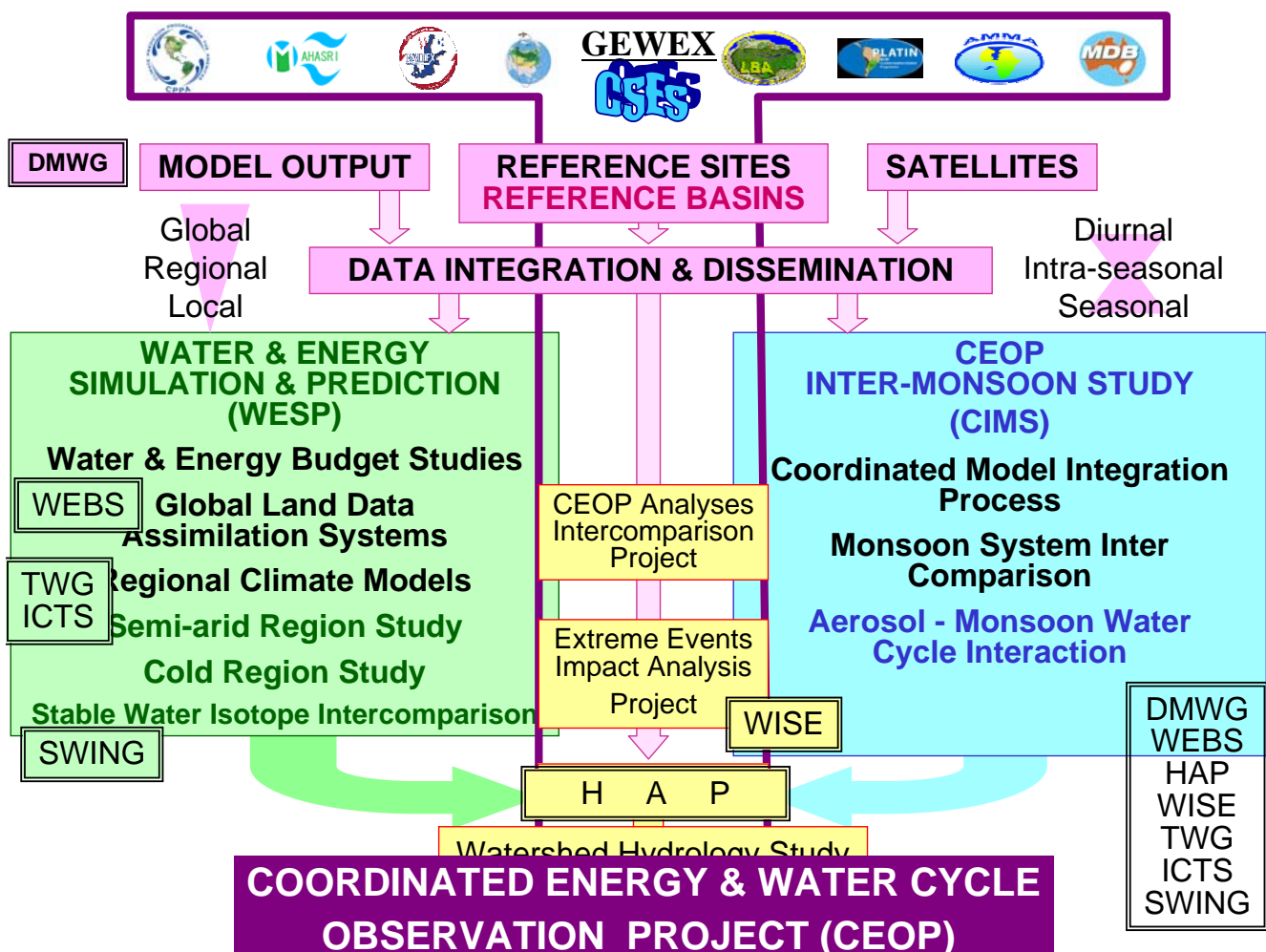
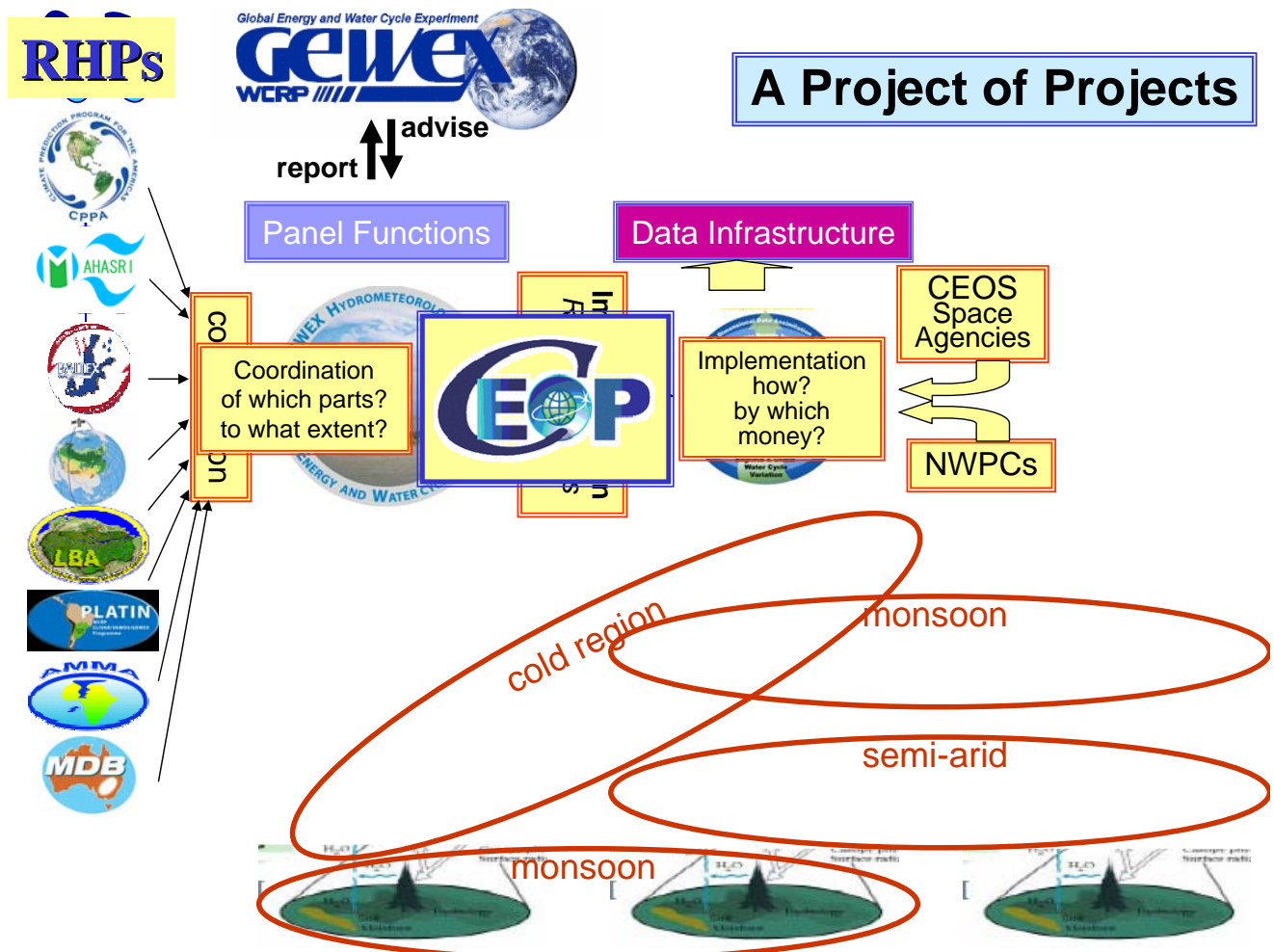
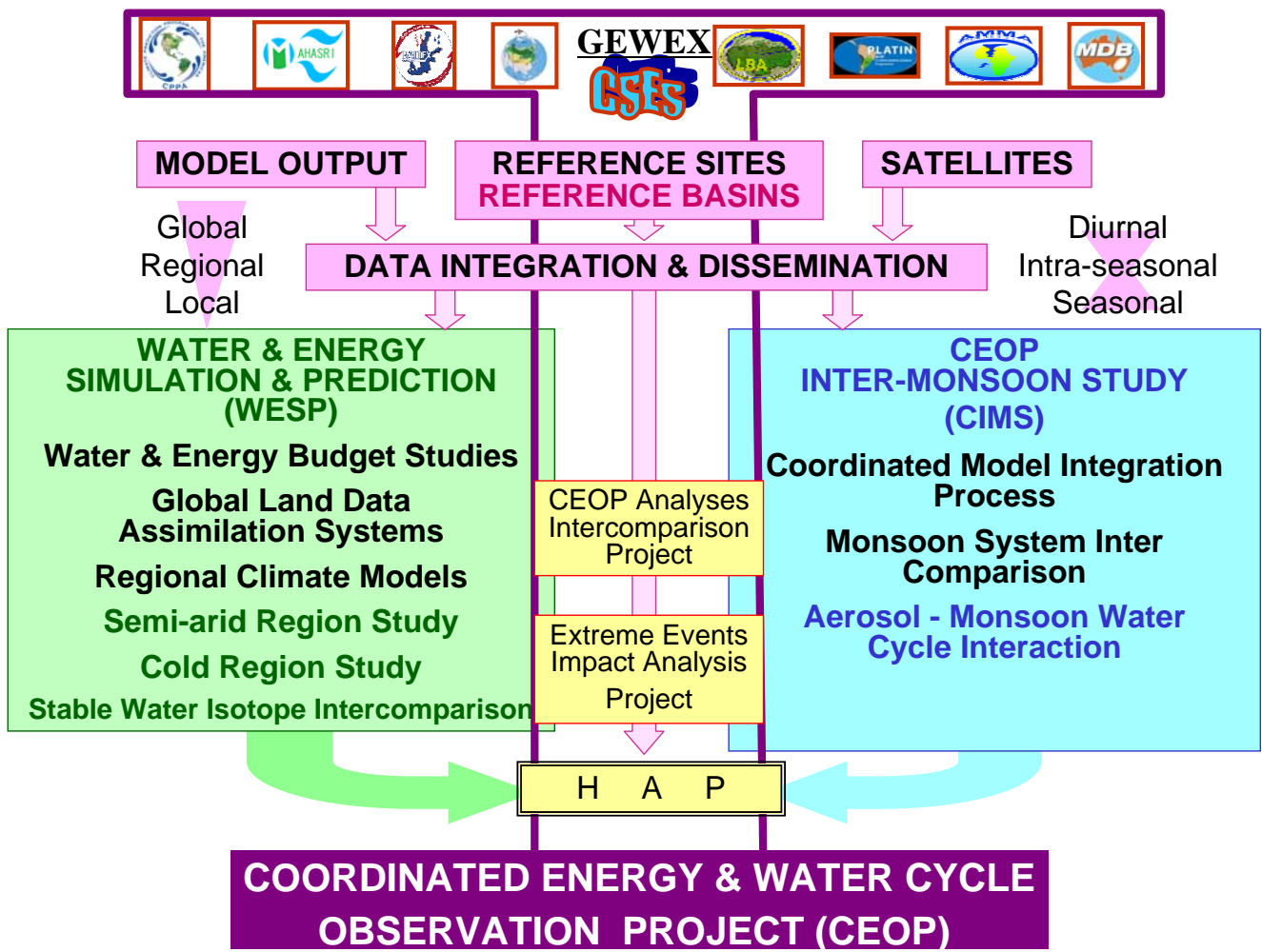


# GHP-CEOP

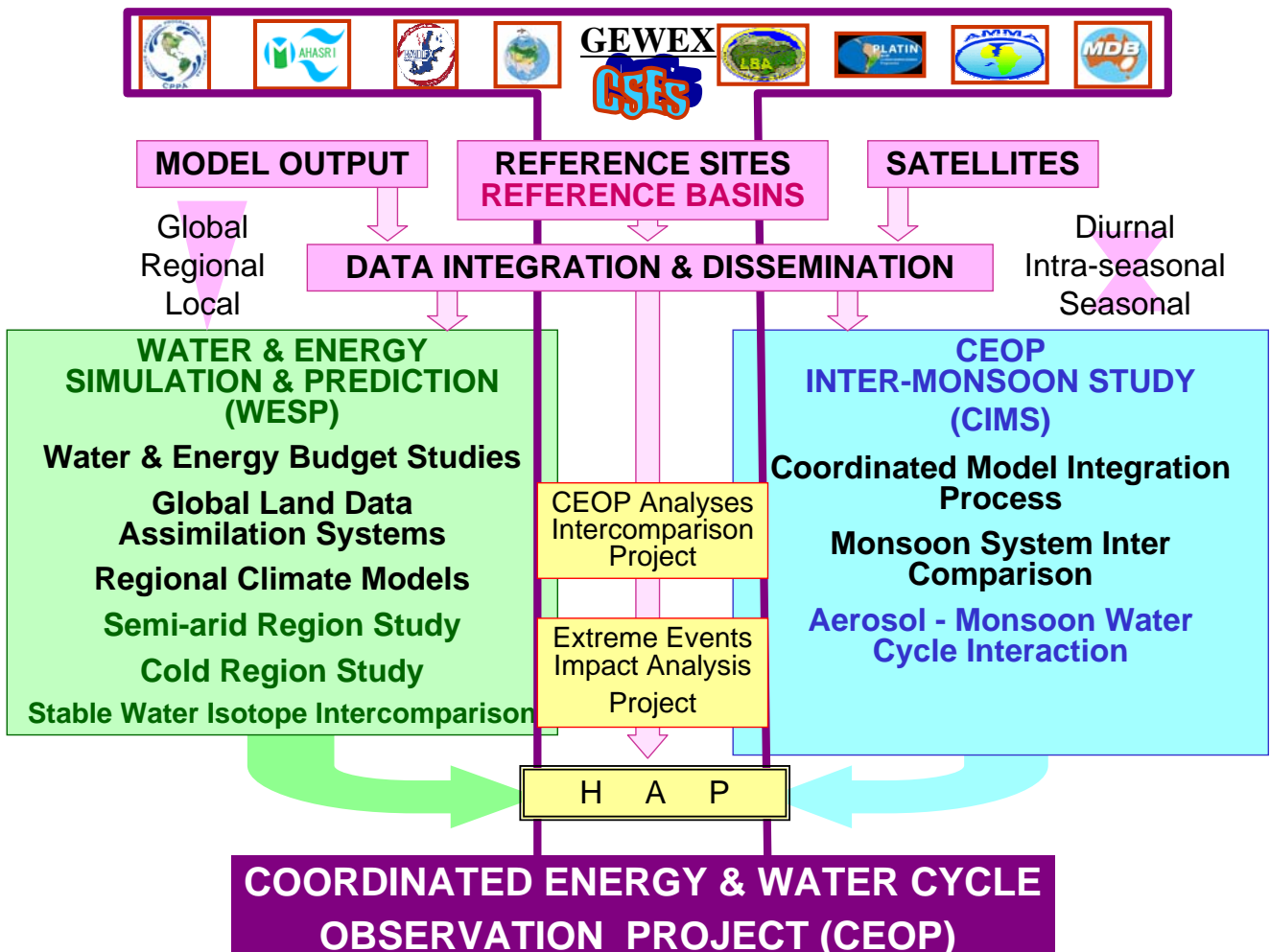
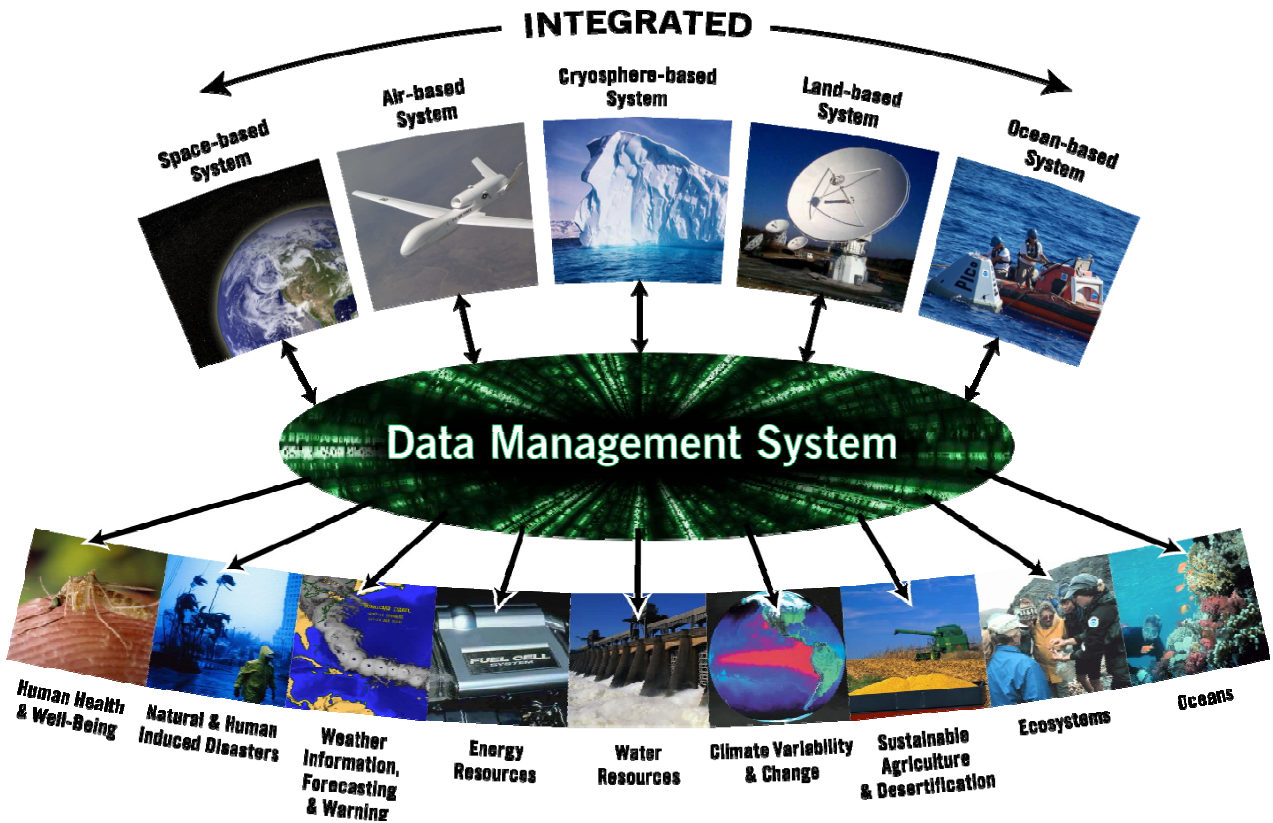
## -evolutional transition-

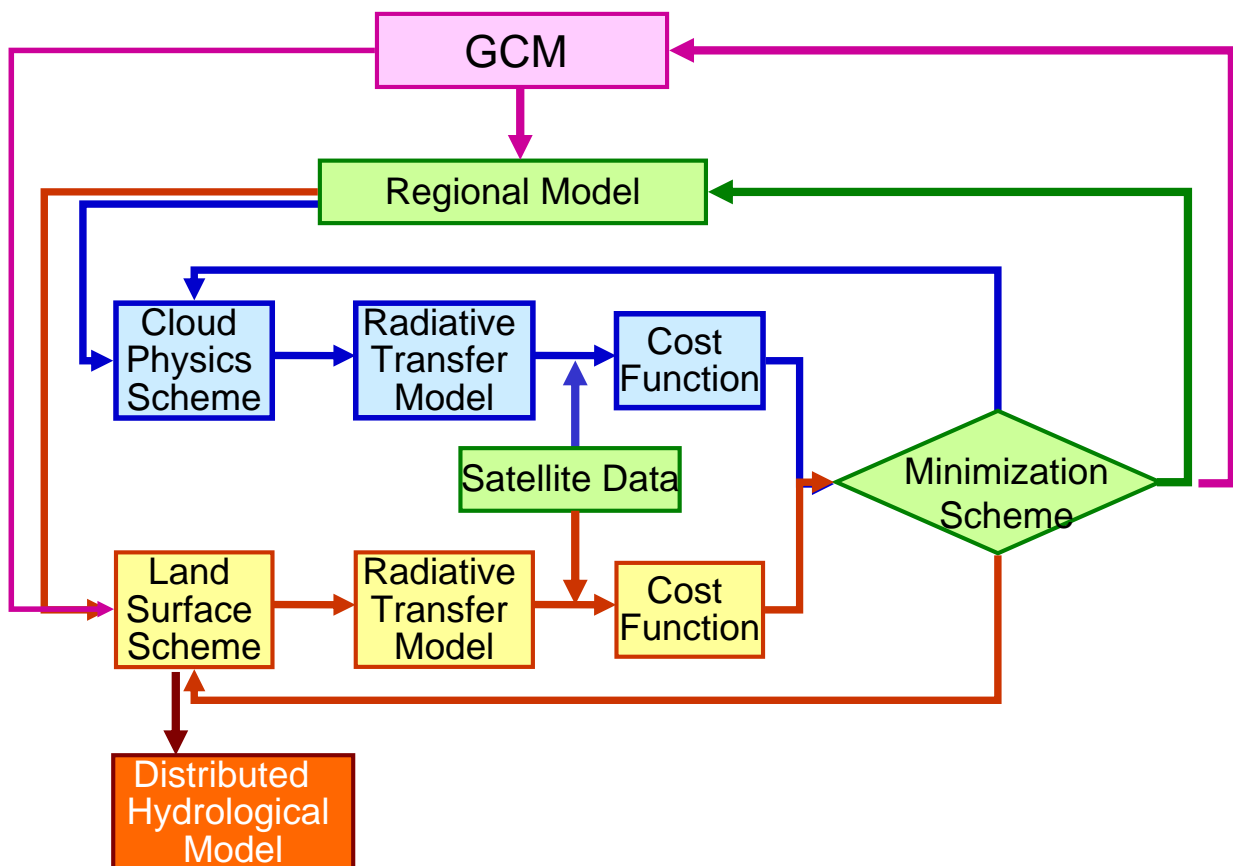
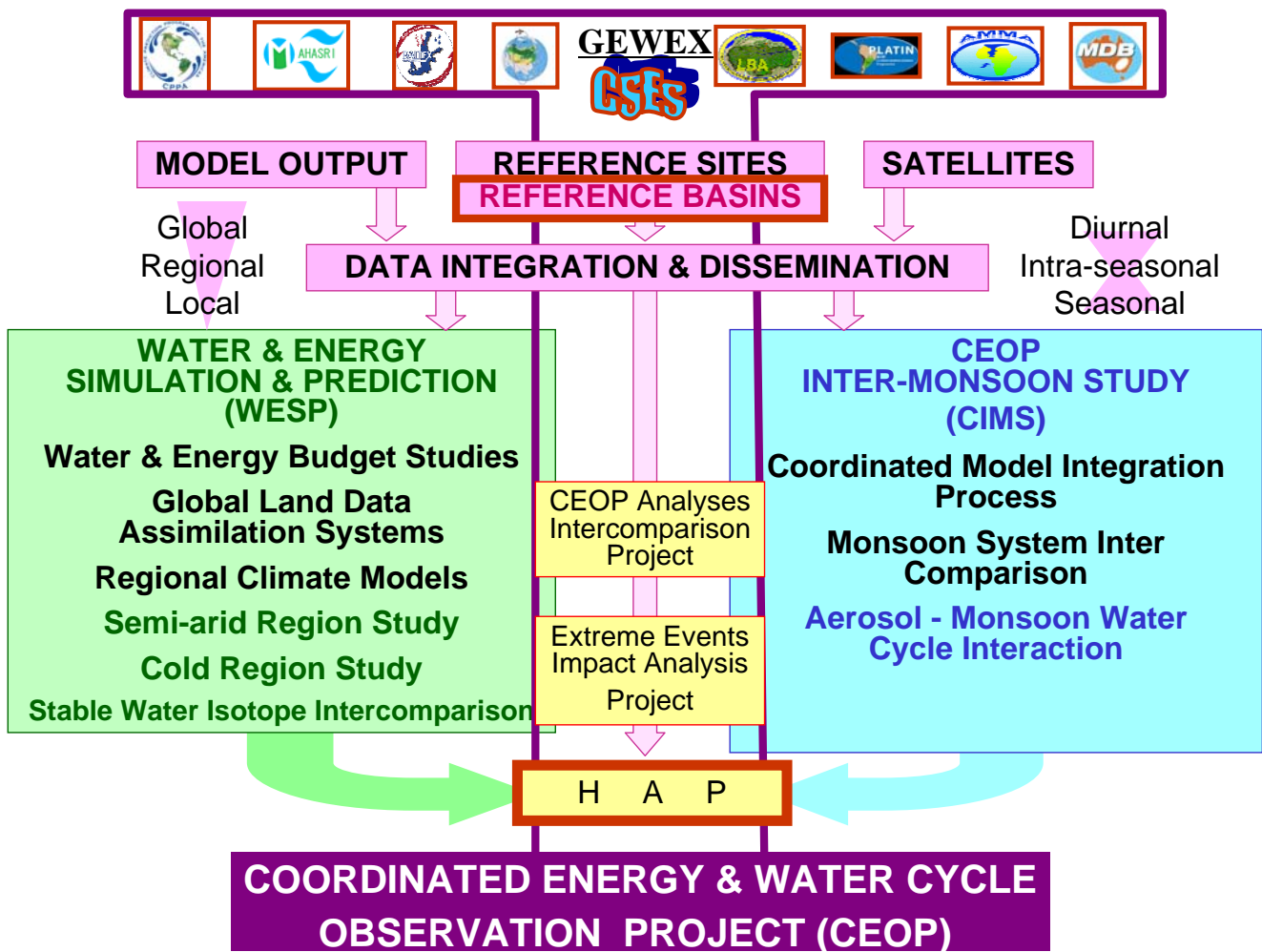
- A new 'science' - 'data infrastructure' coordination body for continental hydroclimate science.
- Functions of scientific coordination panel, observation convergence, interoperability arrangement, and data management .
- Science oversight by GEWEX and data management oversight by WOAP.
- Once a year meeting on science coordination, planning, and project implementation.
- Coordinated Energy & Water Cycle Observation Project (CEOP)



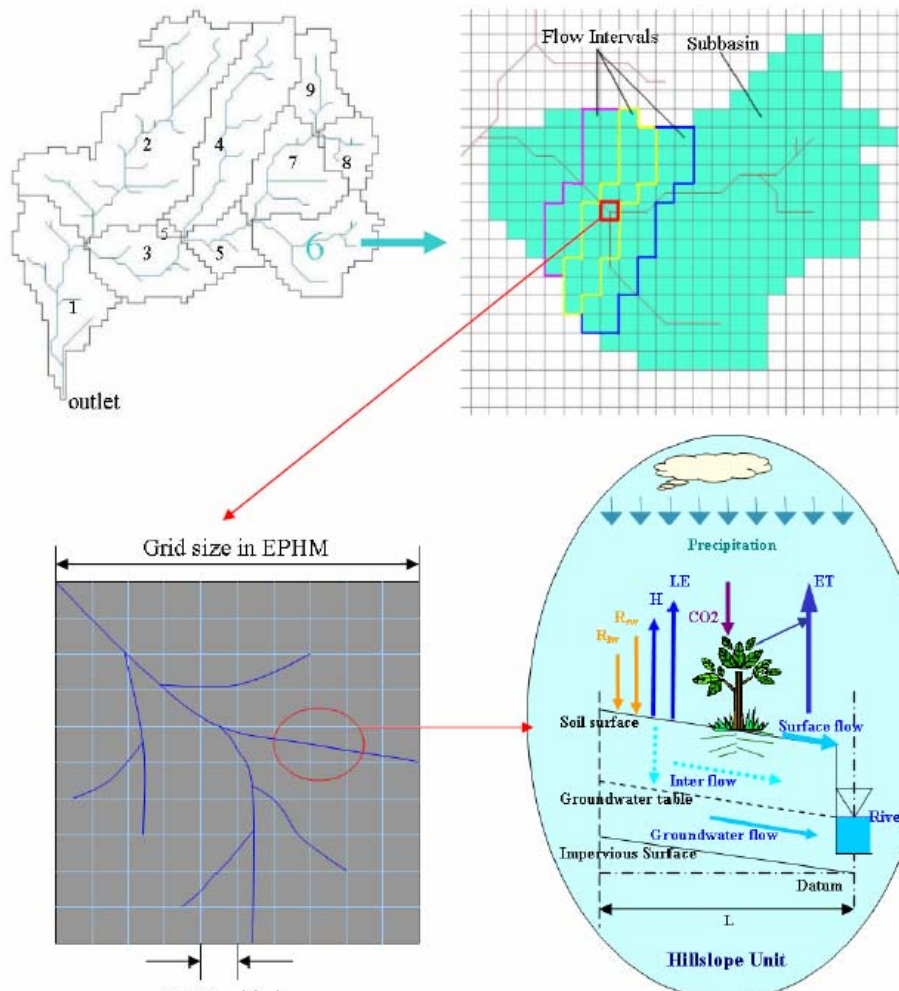


# Global Earth Observation System of Systems (GEOSS)

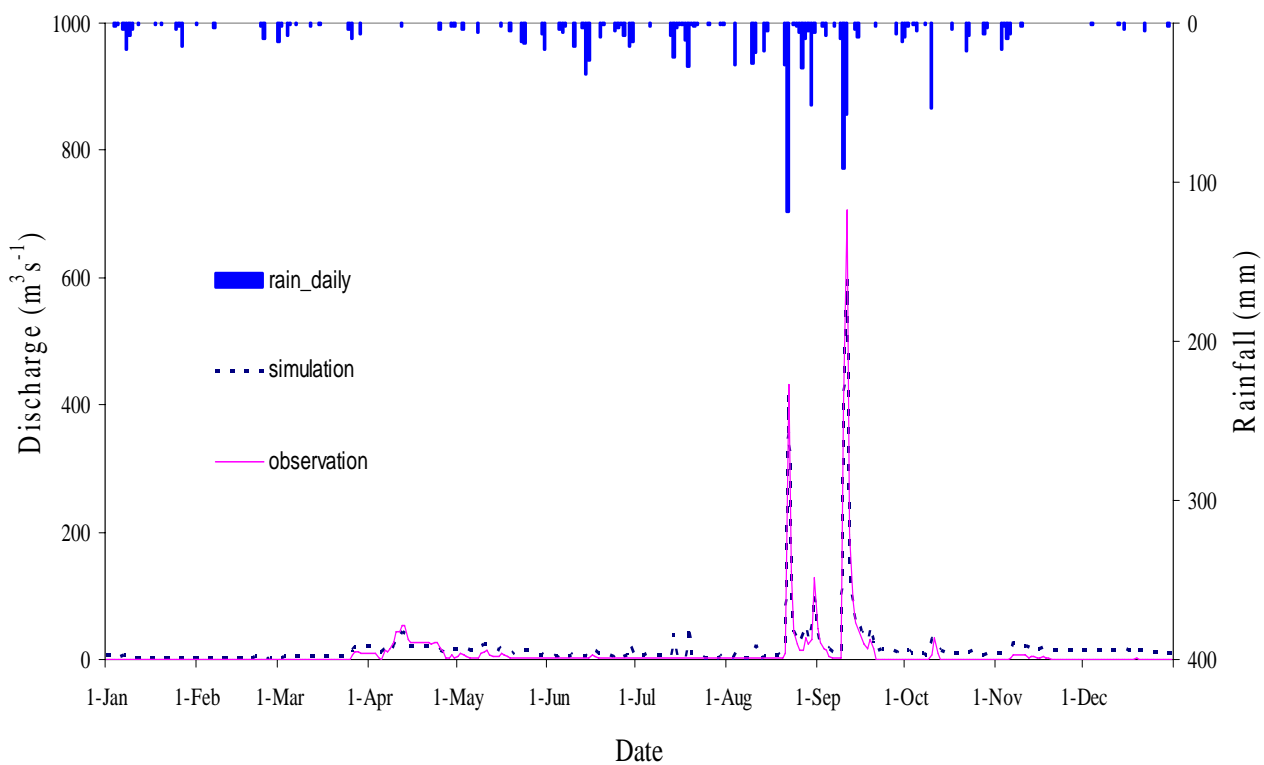


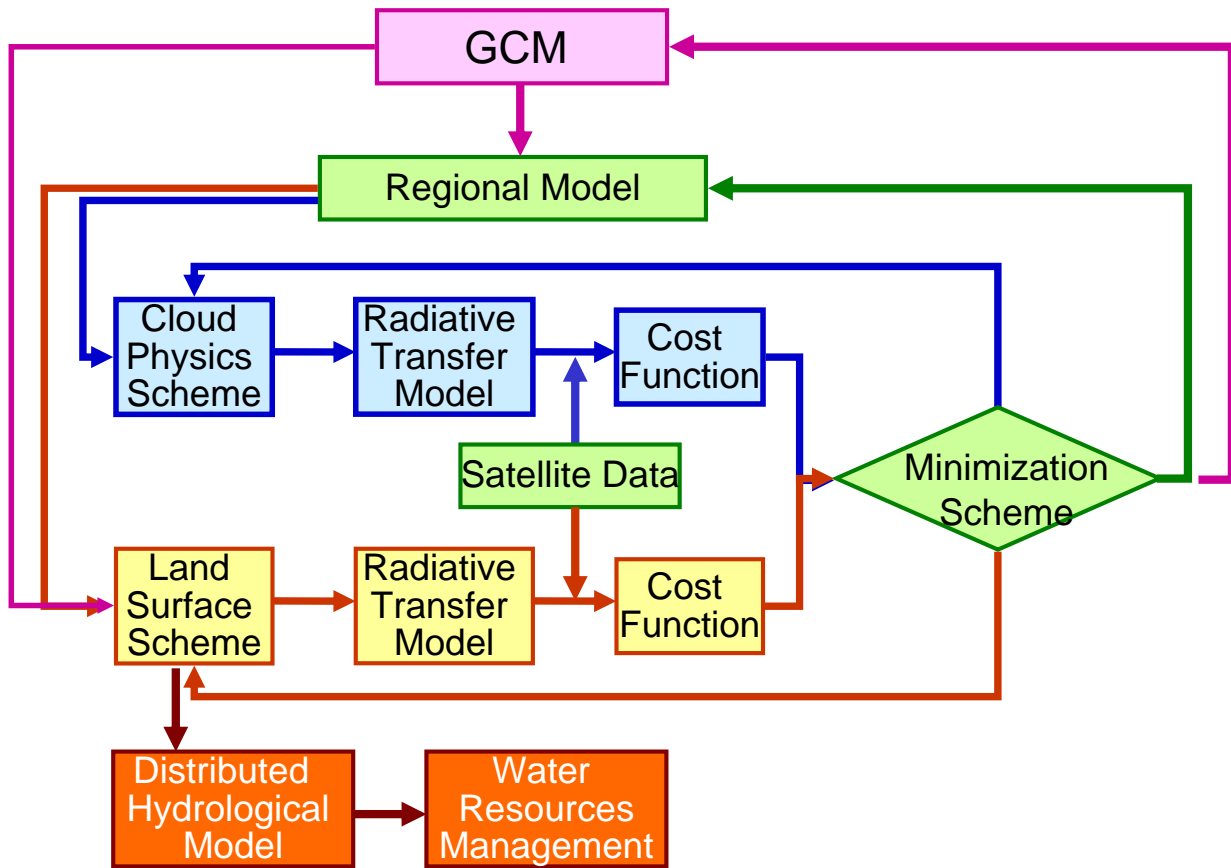




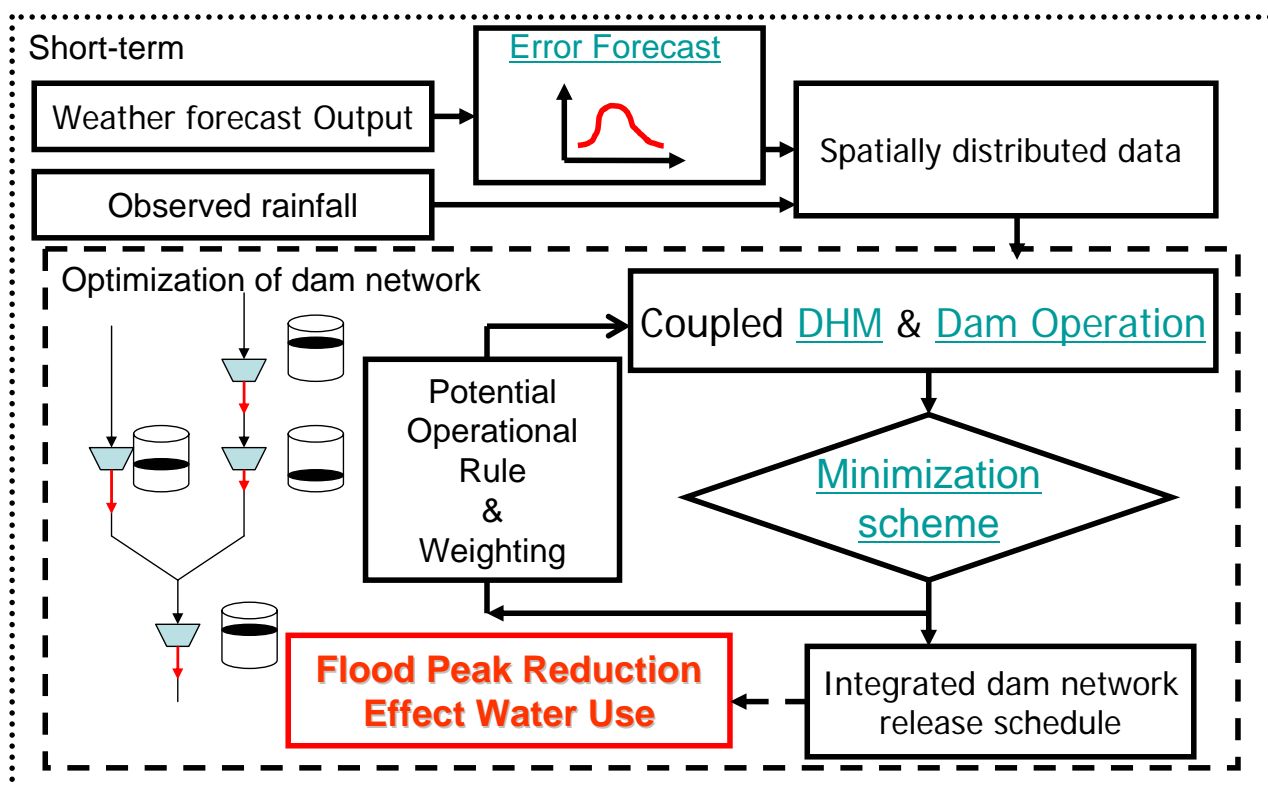


# Kamikuya

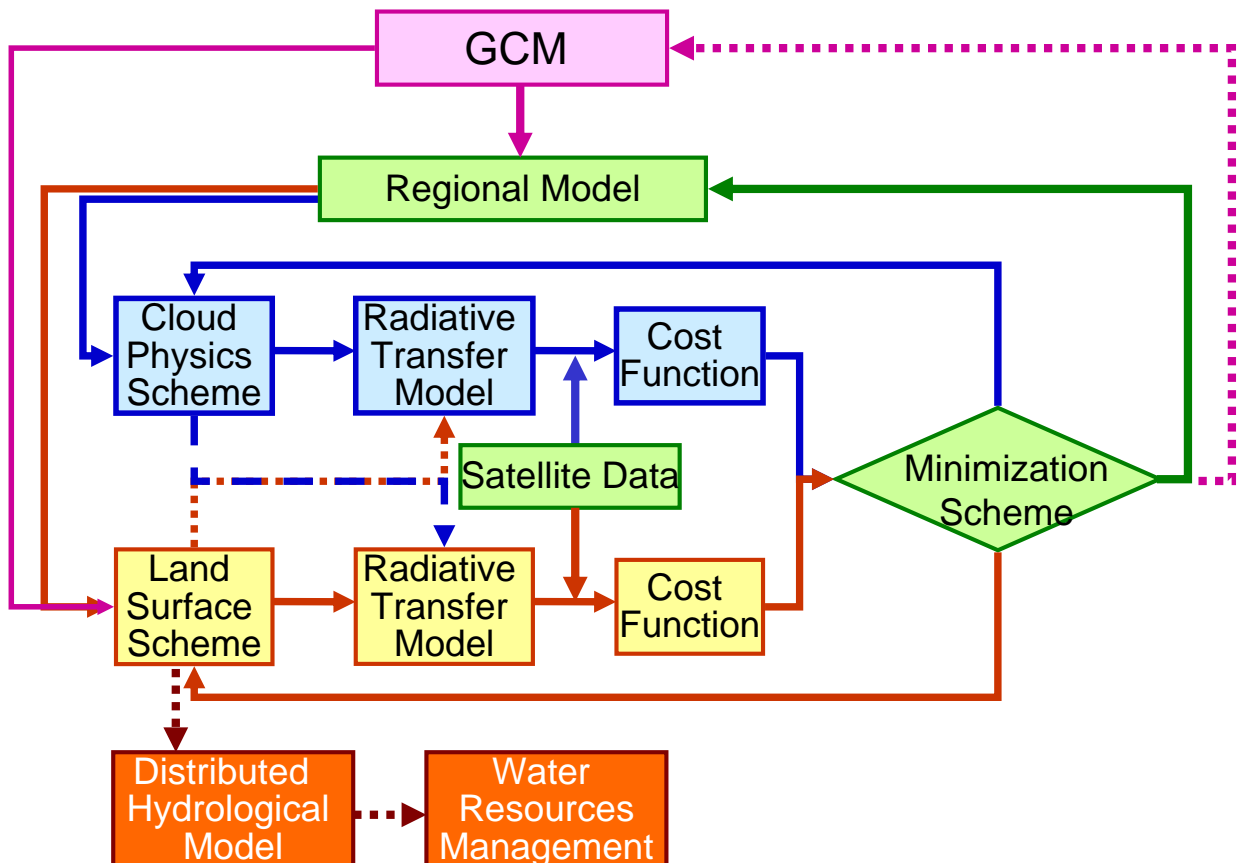
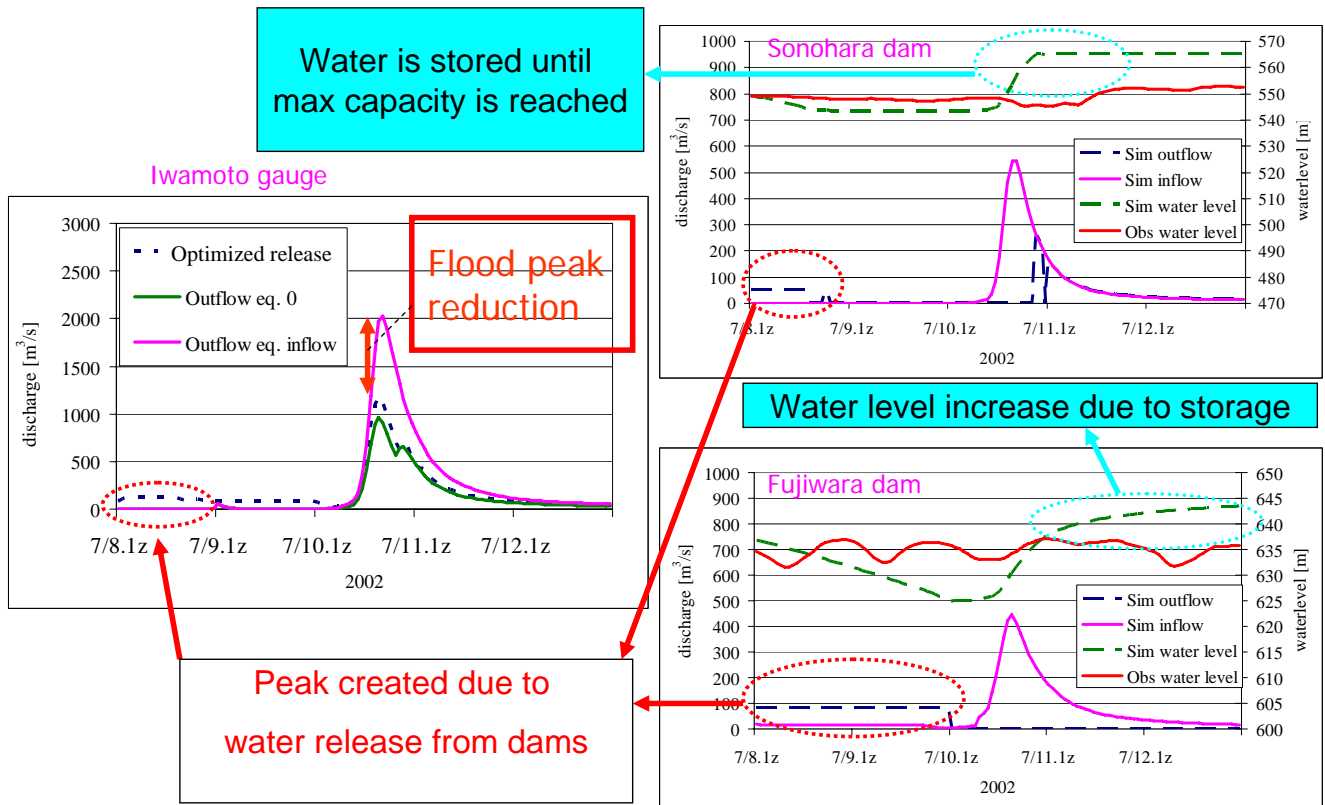




## Dam Operation Optimization System by Using Rainfall Forecasting

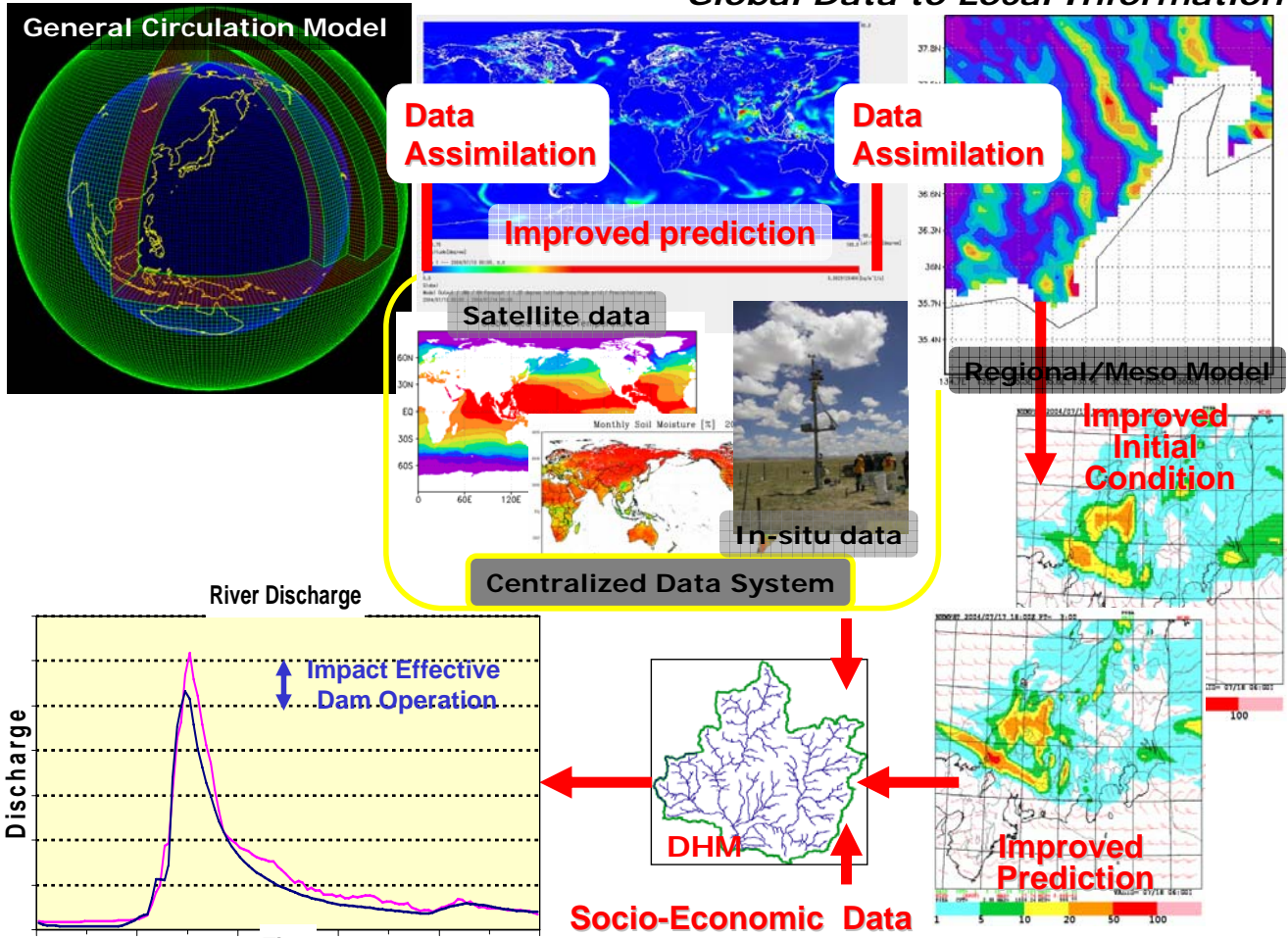


# Flood reduction with GPV 13~18

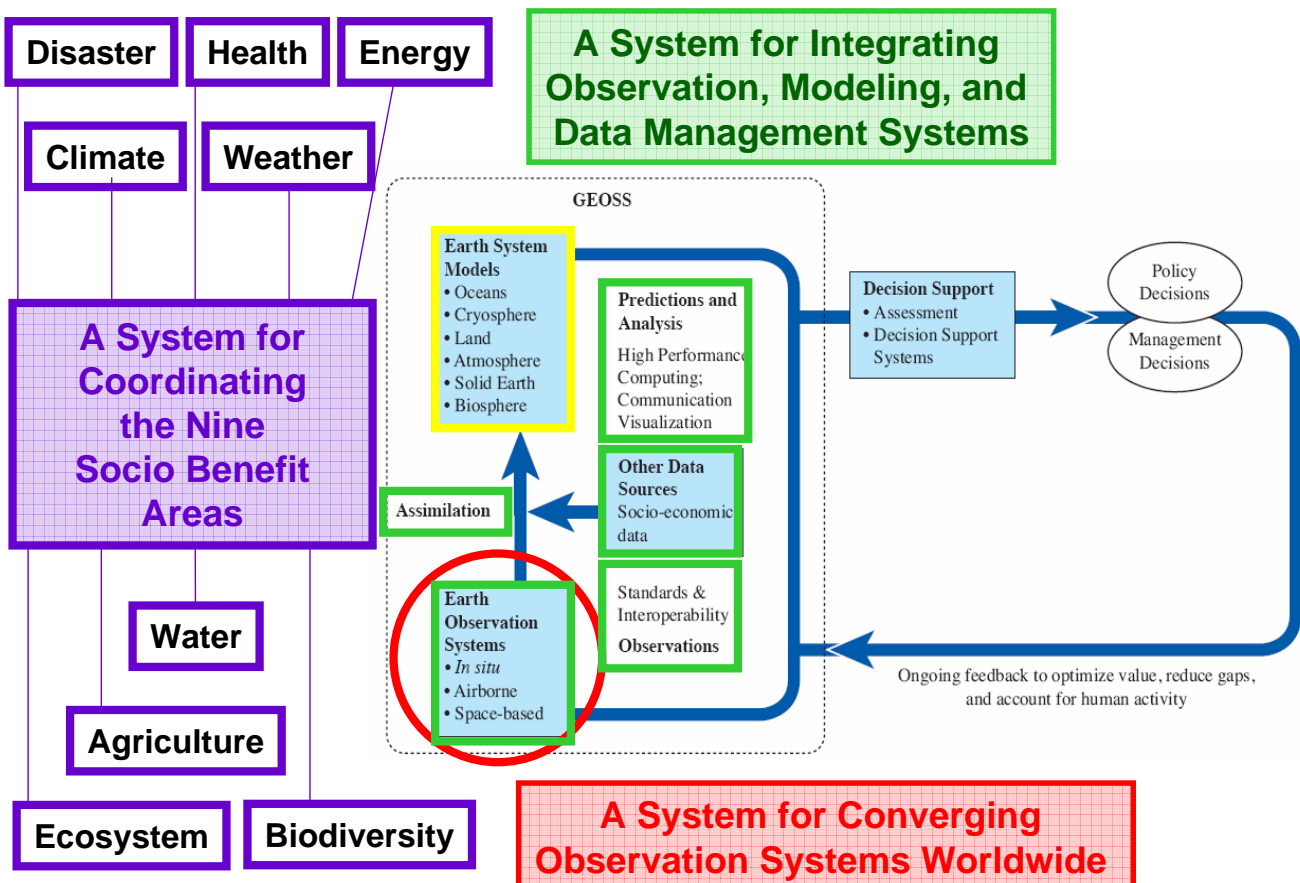




## Global Data to Local Information



## Three Meanings of “A System of Systems”





**MODEL OUTPUT**

Global  
Regional  
Local

**REFERENCE SITES  
REFERENCE BASINS**

**SATELLITES**

Diurnal  
Intra-seasonal  
Seasonal

**DATA INTEGRATION & DISSEMINATION**

**WATER & ENERGY  
SIMULATION & PREDICTION  
(WESP)**  
Water & Energy Budget Studies  
Global Land Data  
Assimilation Systems  
Regional Climate Models  
Semi-arid Region Study  
Cold Region Study  
Stable Water Isotope Intercomparison

CEOP Analyses  
Intercomparison  
Project

Extreme Events  
Impact Analysis  
Project

**CEOP  
INTER-MONSOON STUDY  
(CIMS)**  
Coordinated Model Integration  
Process  
Monsoon System Inter  
Comparison  
Aerosol - Monsoon Water  
Cycle Interaction

**H A P**

**COORDINATED ENERGY & WATER CYCLE  
OBSERVATION PROJECT (CEOP)**