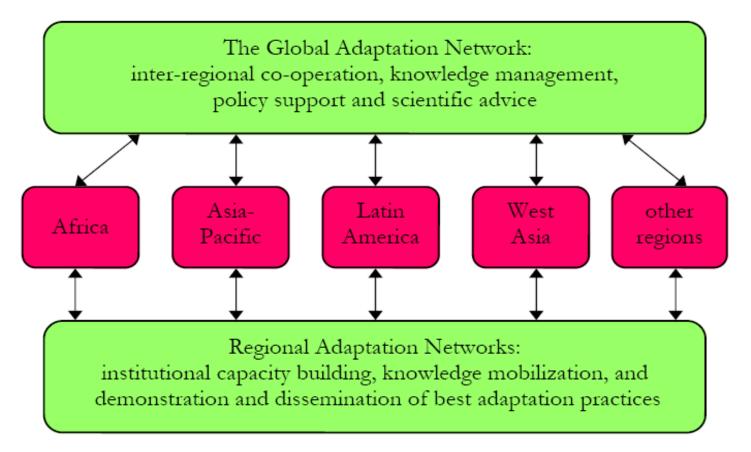
# Regional Partnership & Cooperation in Asia

Masataka WATANABE
Keio University, Japan
Chair, the Steering Committee of APAN

## **Global Adaptation Network (GAN)**



## Asia Pacific Adaptation Network launched on October 3, 2009 and is piloting the GAN

- inception phase (2009-2010)
- development phase (2011-2012)
- full operation phase (2012-)

## **Asia Pacific Adaptation Network** (APAN)

Prof. Masataka Watanabe (Japan) - Chair:

- Central Asia: Ministry of Nature Protection (Turkmenistan)

Climate Change Coordination Center (Kazakhstan)

- South Asia: Ministry of Environment and Forest (India) Indian Institute of Technology-Bombay (India)

- Pacific: Secretariat of the Pacific Regional Environment Programme

**National Adaptation Research Facility (Australia)** 

- Southeast Asia: ASEAN Senior Officials (Cambodia)

Mindanao State University (Philippines)

- Northeast Asia: Korea Environment Institute (Republic of Korea)

Chinese Academy of Sciences (China)

**Steering Committee** 

Asia Pacific Regional Hub / Bangkok (UNEP RRC.AP and IGES co-host the Regional Hub)

International Support Group

Northeast Asia sub-regional node

Pacific sub-regional node

Central Asia sub-regional node

South Asia sub-regional node

South-East Asia sub-regional node

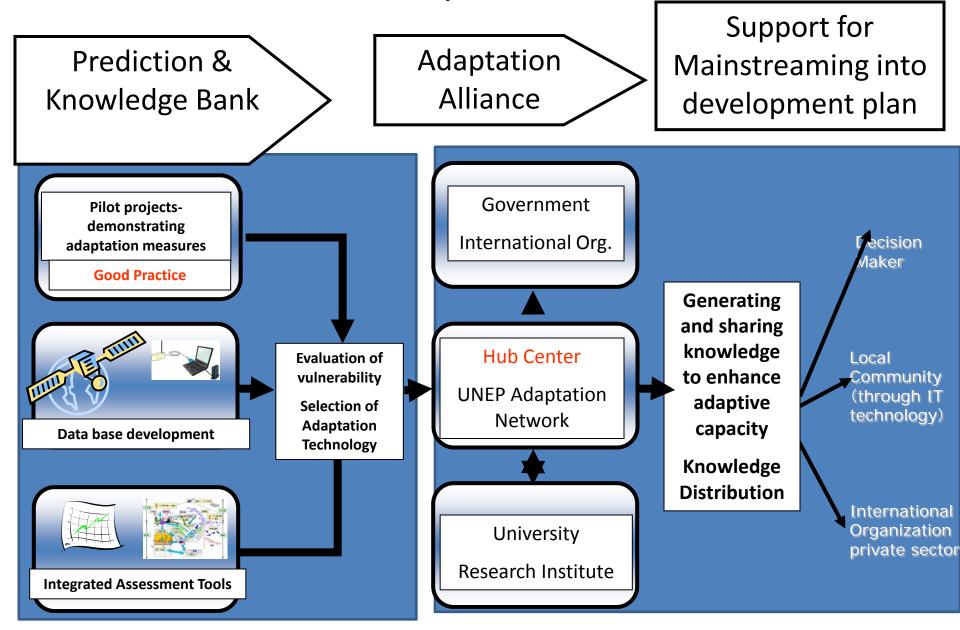
**Adaptation Platform** 

(Sub-regional autonomous node for South and South-East Asia

## Adapting by building resilience to a changing climate

- Assessing vulnerabilities and adaptation services of ecosystem;
- Promoting ecosystem based-adaptation;
- Building national capacity for undertaking integrated vulnerability and adaptation assessments;
- Supporting countries to integrate adaptation into their national and sectoral development planning processes;
- Providing technical and policy support to major climate change financing mechanisms.

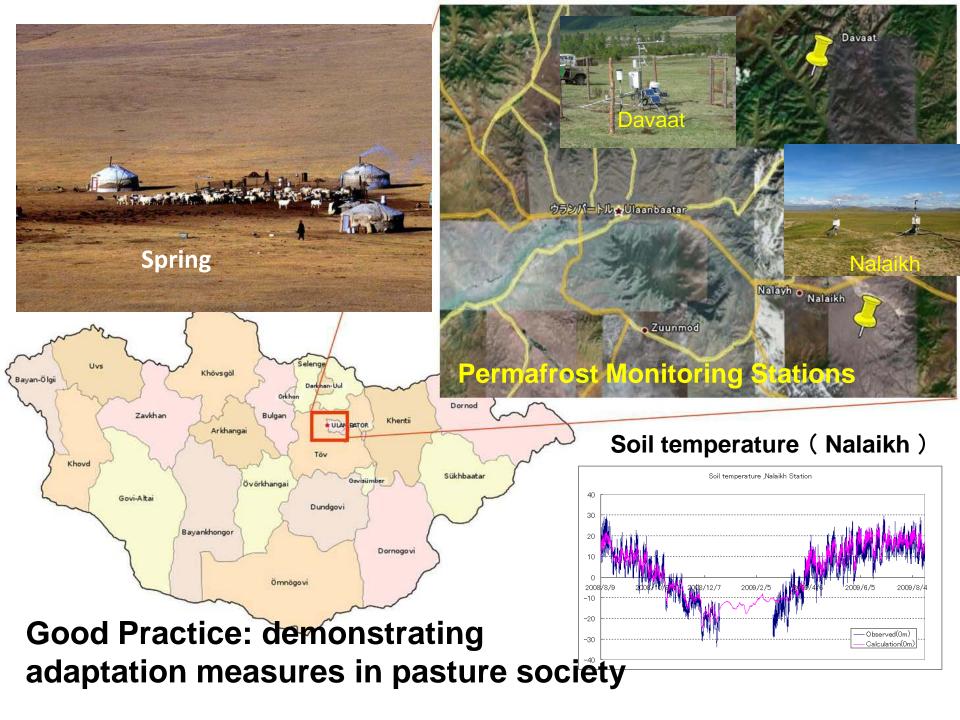
## Asia-Pacific Adaptation Network



### First Activity



Consultation Meeting in Mongolia, June 2010

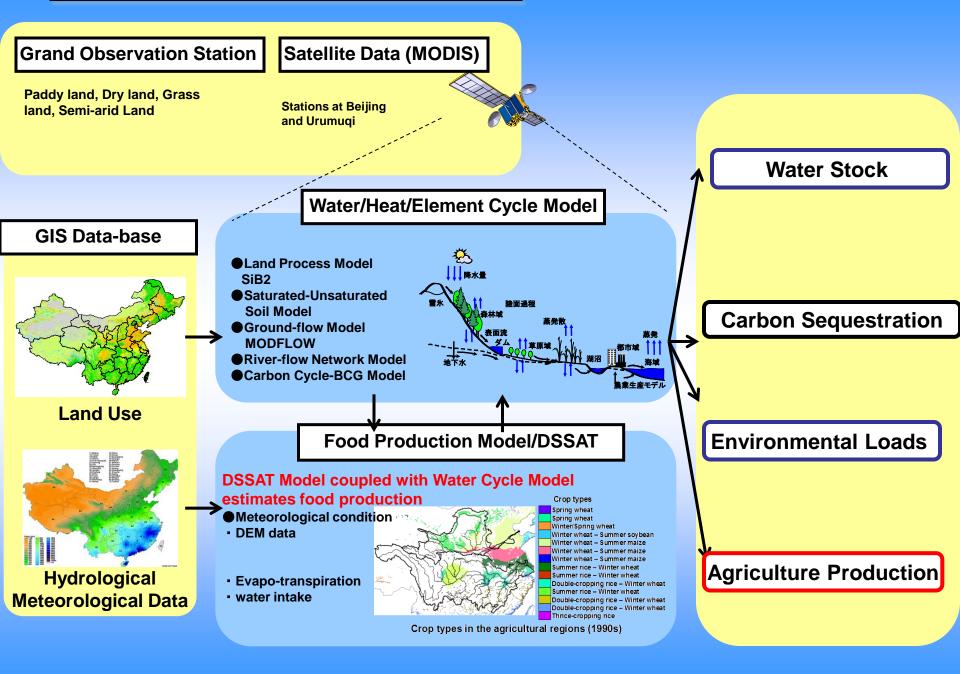


## **Second Activity**

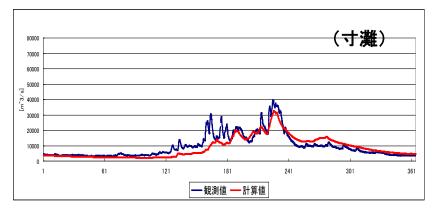
Central Asia Regional Consultation Meeting
was held on September 29,2010
as a side-event to the 6th Ministerial Conference
on Environment and Development in Asia and the Pacific

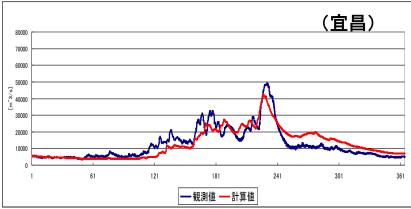
Theme
Integration of Climate Change Adaptation
into Sustainable Development in Central Asia

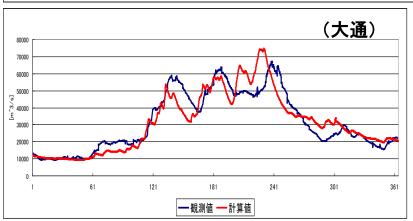
#### **Assessment of Environmental Resources**



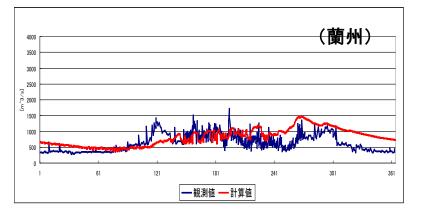
#### Changjiang flow rate in 2002

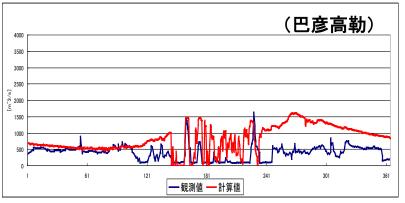


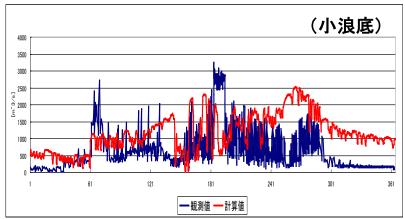


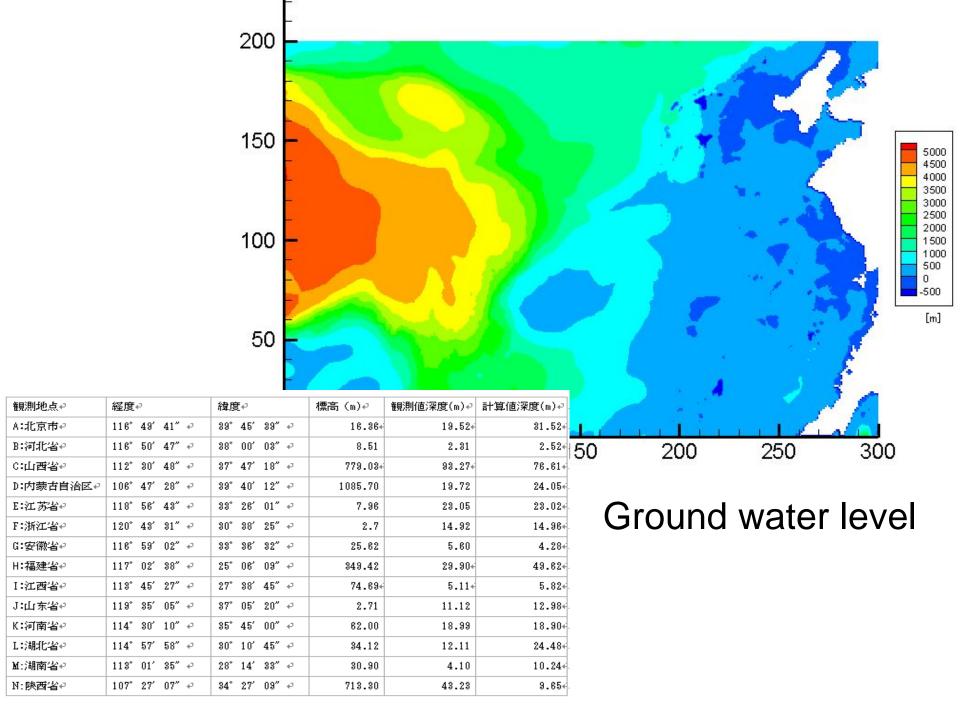


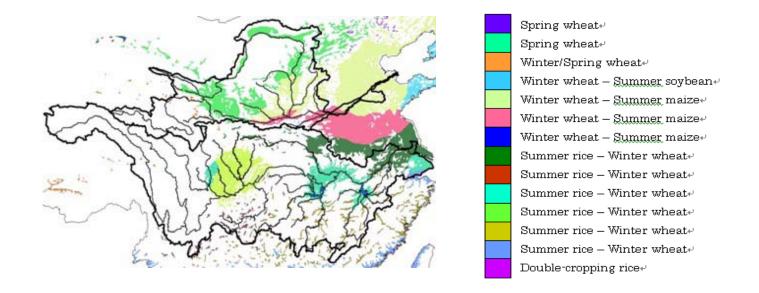
#### Yellow river flow rate in 2002



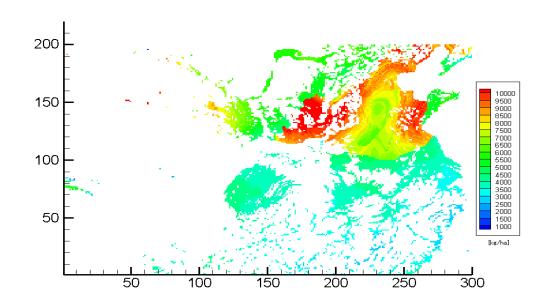




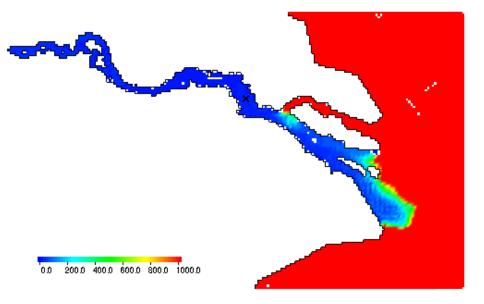




### Rice and corn production in 2001

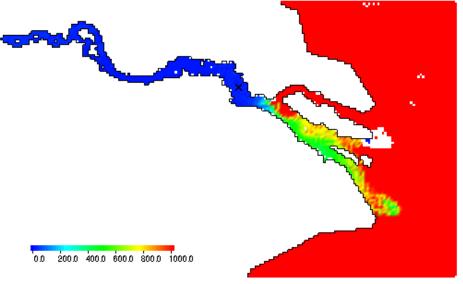


- 1. Increase in sea level rise of 9cm in the past 40 years (State Oceanic Administration, China)
- 2. Decrease in Changjiang river flow due to climate change and economic growth



# Salinity Intrusion into Changjiang Estuary Feb. 27, 1999

3000m3/sec flowrate decrease



#### **Estimation of Socio-Economic Condition using Economic Model**

Change in Demand/Supply
Balance of Food and Energy due
to economic activity

- Food Production
- Demand and Supply Balance in Food and Energy
- General Equilibrium Model in regional scale

(Global trade assistance and production)

#### Water · Heat · CO2 Inventory

- Input-Output Table in China
- 30 Industrial Sectors
- Environmental Load : water demand, waste water, C/N/P load, CO2 load

