

The 8th GWSP-SSC Meeting, , 7-10,Dec. 2010

GWSP Relevant Actions in China & Asia Region

Prof. Jun Xia

Asia Scientific Network Office of GWSP (GWSP-ASNO)

*Excusive Vice Chairman, **GWSP-CNC***

Leading Professor & Director,

Center for Water Resources Research,

Chinese Academy of Science (CAS)

GWSP activities in China & Asia Region

- Since 2006, ***Chinese National Committee of GWSP (GWSP-CNC)*** and ***Asia Scientific Network Office of GWSP (GWSP-ASNO)***, collaborated with ***IAP, Inter-Academy of Council (IAC)-Water Programme***, carry out several key research projects related GWSP in China and organize a series of ***East Asia/Asia-Pacific regional workshops*** to address the issue of GWSP.

GWSP JOINT MEETING WITH CNC-GWSP

November 6, 2006. Beijing. china





Several presentations & plans focus on GWSP research problem in China & other Asia countries, such as dams impact and LUCC etc.

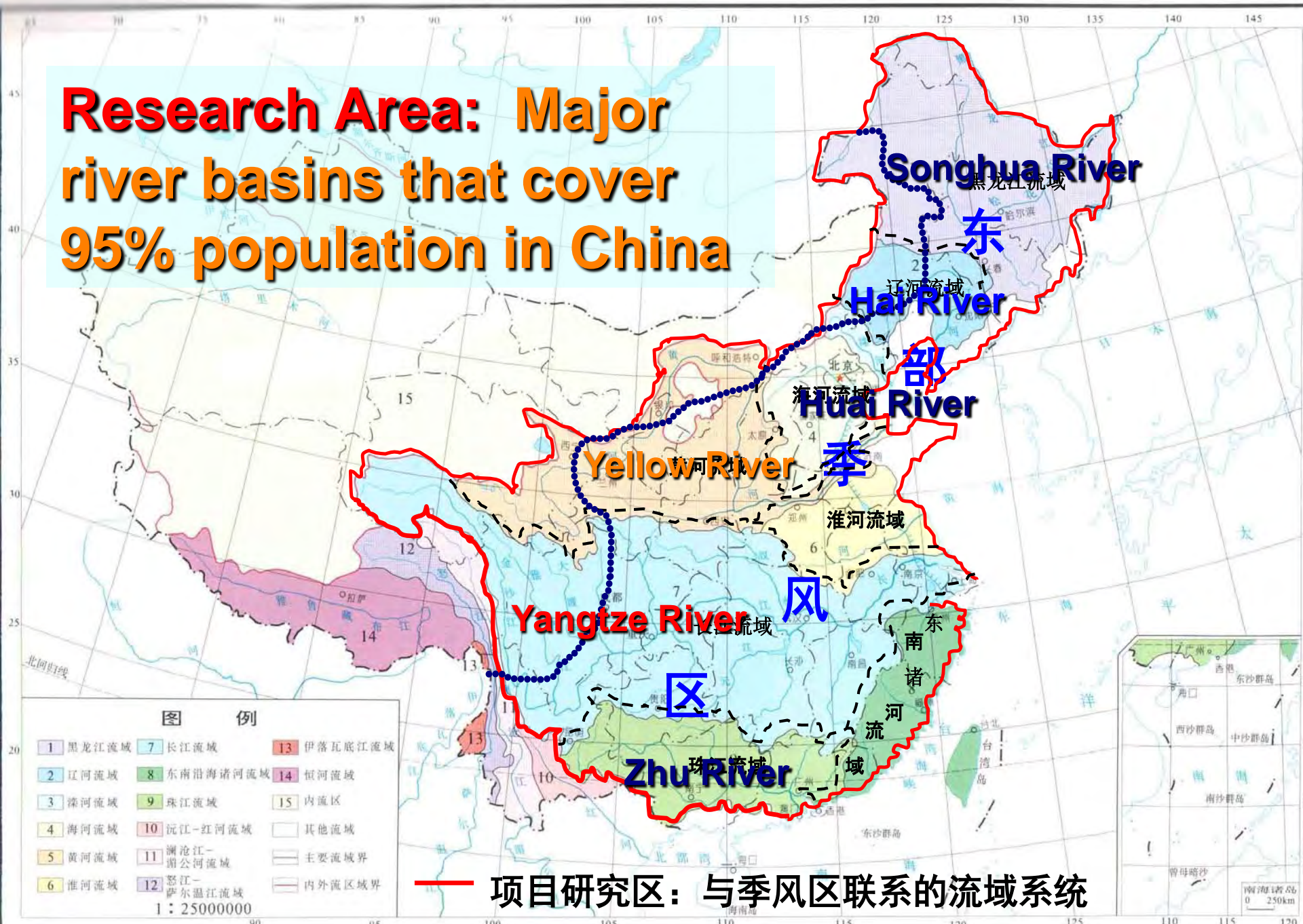


1. Impact of Climate Change on Water Cycle, Regional Water Resources Security and the Adaptation Strategy for the Eastern Monsoon Area of China (2010-2014)

National Basic Research project (973 project) supported by MOST with 28 Million RMB, lead by J.Xia

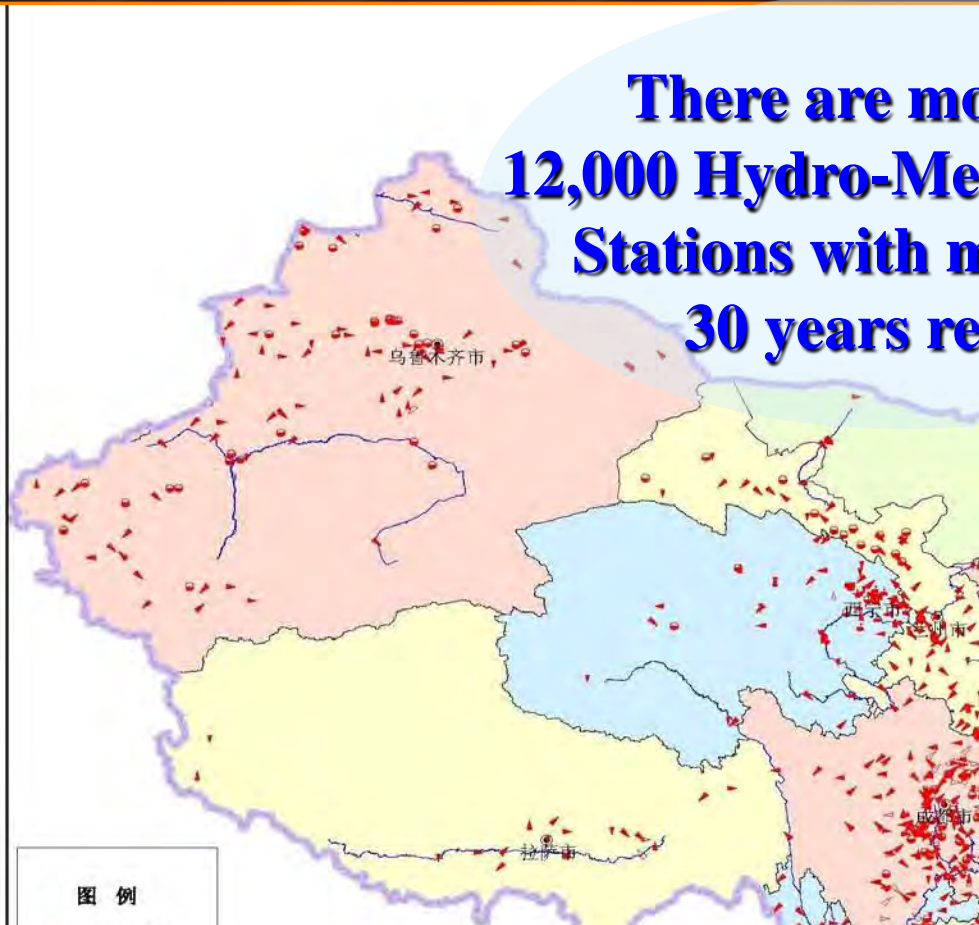


Research Area: Major river basins that cover 95% population in China



Observation net work in China

**There are more than
12,000 Hydro-Meteorological
Stations with more than
30 years records**



Project partners:

BH, MWR

NCC, MDC

Key Research Issues

1. **Time-space variability** of water cycle & its **uncertainty** to climate change & human activities
2. **Land & atmosphere interaction and feedback mechanism** by building coupled hydro-climate models etc.
3. **Vulnerability and adaptation** of regional water resources impact by climate change

MAJOR RESEARCH

➤ **Detection & Attribution** of non-stationary hydrological processes for past 50-100 years

➤ **Reduced uncertainty of future different climate-hydrological scenarios (GCMS) & downscaling**

➤ **Coupling Land hydrological process models with Regional climate models**

➤ Impact of climate change on **Drought & water security related to food security & eco-system** in North China

➤ Impact of climate change on **floods control security** related to South China (Huai River etc.,)

➤ **Water resources vulnerability & adaptation management**

Advantages for this project

- ◆ GWSP concepts
- ◆ CNC-GWSP Peoples play a key role
- ◆ Supported by MST, China Government
- ◆ Real coloborated team:

Chinese Academy of Sciences

Ministry of Water Resources

National Climate Center in China

Several Key Universities in China