Moderated by Steven Wade
Workshop on Transboundary Flood Risk Management
19th – 20th March 2015
Risk Knowledge
Are the flood and droughts risks well understood?
Are risk maps and data available to those that need them?
Is the basin hydrology and hydraulics understood?

Monitoring and Warning Service**
Do regional/cross-border early warning systems exist?
Is it possible to generate timely warnings?
Do NMHS cooperate within and between countries?

Dissemination and Communication
Communicate risk information and early warnings
Do people have access to warnings?
Is the information delivered in a suitable format? Can users feedback their needs?

Response Capability
What is the level of regional and national capacity?
Are emergency plans in place?
Are roles and responsibilities clear?

Framework for warning systems (Based on UNIDSR, 2005)

Flood risk mapping & management plans are key components of FRM
Cooperation is needed for effective flood risk management

An example of levels of cooperation

Source: WMO/Global Water Partnership Associated Programme on Flood Management.
Source: Product of the Transboundary Freshwater Dispute Database, College of Earth, Ocean, and Atmospheric Sciences, Oregon State University. Additional information about the TFDD can be found at: <http://www.transboundarywaters.orst.edu>
Transboundary River Basins of Asia

Source: Product of the Transboundary Freshwater Dispute Database, College of Earth, Ocean, and Atmospheric Sciences, Oregon State University. Additional information about the TFDD can be found at: <http://www.transboundarywaters.orst.edu>
Discussion
Discussion points

**Governance and leadership**
- What institutional arrangements are needed to implement a basin-wide approach?
- What level of cooperation is evident in each case study?

**Best flood risk management measures**
Which flood protection measures are of key importance in each basin? Do they differ between basins?
**Challenges**

What are the key challenges for future effective flood protection?
- What are the main obstacles preventing the implementation of flood protection measures?
- What is needed to set up ideal emergency response mechanisms?

**Lessons learned**

- What has been learned from the recent events? How were/are the events evaluated? What is/will be done differently in order to be better prepared for a next event of similar magnitude? Is an enhancement of transboundary cooperation possible/necessary?
- What can be learned from each other?