International Workshop on Detection of Non-stationarity and Adaptive Water Resources Management in a Changing Climate

22 October 2011

Participants & Presentations

- 3 Sessions and Group Discussion after sessions

- 9 presentations with ppt (3 presentations per session)

- Participants: 12-16 pax
  Europe – 4   North America – 2
  Asia -   10

Session 1

- Detection of non-stationarity and non-linearity: regional and local levels (e.g. Canada)

- CC adaptation strategies (e.g. India)

- Change in hydrologic regime is not necessarily due to climate change (e.g. case of Germany)

Session 2

- Interest on extreme events (global, regional, local)
- Availability and reliability of data
- Methods for downscaling, detecting non-stationarity, frequency analysis accounting for non-stationarity; time dependent probability distribution function to estimate return period (e.g. China)

Session 3

- Differentiate 'detection' vs. 'attribution'
- Methodologies for analysis of climate change trends, uncertainties, sources of uncertainties, non-stationarity, etc.
- Copula modeling approach (e.g. drought analysis in China)
- Quantifying uncertainty: different approaches/ methods

Group Discussions

- How to go about incorporating uncertainty analysis in planning, engineering design, operations, e.g. land use plan; drainage design, etc.

- Do governments accept CC? They have other concerns e.g. population increase; financial crisis; etc.

- Mainstreaming knowledge- or science-based approaches

Follow-up Activities?

- Documents to be shared with GWSP website.

- Publication?