Hydro-Met Services and Inter-Agency Collaboration

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Challenges to Interagency Cooperation

- Meteorological and Hydrological Responsibilities Often Separated
- Multiple Agencies Collect Hydrological Data
- Need Policy, Law, Regulations and/or Coordinating Body
Example of Thailand

National Hydroinformatics and Climate Data Center

2012-2015

13 agencies
240 data items

2016

+21 agencies

377 data items from 29 agencies (as of date)
Collaboration is important because hydro-met information serves multiple purposes across time scale.

- **Hours**
  - On-line monitoring
  - Flash flood forecasting
  - Real-time control
  - Emergency management
  - **Flood forecasting** and early warning
  - ...

- **Days**
  - **Reservoir operation**
  - Water allocation
  - Seasonal forecasting
  - Drought management
  - Reservoir sedimentation management
  - ...

- **Months**
  - Infrastructure development
  - Water and environmental planning
  - Climate change adaptation
  - ...

- **Years**
  - ...

- **Decades**
  - ...
Hydrometeorological Information Fundamental to Design and Operation of Hydraulic Infrastructure
New Perspectives on Hydrology

ET Monitoring
Water Accounting
Africa Agriculture