Hydrological Monitoring and Information Services in China

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http://www.hydroinfo.gov.cn
Every year, more than 600 million digitals of hydrological data are collected, providing reliable basis for flood and drought control, water resources management, water environment protection, designing of water-related works, local and national economic planning.
By 2004, the hydrologic monitoring network included:
- 3 200 hydrological base stations,
- 1 100 water stage stations,
- 14 000 rain gages,
- 3 900 water quality stations,
- 11 757 groundwater stations,
- 358 evaporation stations and 70 experimental stations.

There are 7595 flood reporting stations and 1052 hydrologic forecast stations in the whole country.
Hydrometric monitoring

- Hydrometric auto-monitoring

For rain gauges and stage stations, only 40% have auto-recording system.
From the gauge to the national center, it takes about 30 minutes in real-time hydrological information transfer for 70% of hydrological gauges.
Hydrological services

Operational Systems for Information Services

SES — Sky-Eyes System (天眼气象综合业务系统)
(Meteorological Integrated Operation System)

HICSFD — Hydrological Information Consulting System for Flood Control (防汛会商系统)

HIIS — Hydrological Information Inquiry System (水情查询系统)

NFFS — National Flood Forecasting System (中国洪水预报系统)

ISS — Information Service System (信息发布系统)
(The Web Information Release System)
Consultation meeting
Weather will be...
Rainfall & Flood Forecasting
Suggestion
If … Then … analysis
Discussion
Decision
Hydrological services for water resources management

... a lot of projects concerning water resources allocation like water transfer in the river basins of Heihe and Tarim, transferring water from South China to North China, transferring water from the Yellow River to Tianjin City, diverting water from river to the Taihu Lake as well as water reinforcing for the Nansihu Lake, water supplement to the Zhalong Marsh and water reinforcing for the Baiyangdian Lake.
In the recent years, the monitoring, analysis and evaluation of water quality have been further reinforced; the emergency-handling monitoring capacity has been continuously strengthened.

...play important role in **water resources protection**.

Hydrological services for water quality control

Beijing mobile lab of water quality monitoring

providing water quality information on water source zones of water supply
Public Information Service

- **Meteorological Information**
  (http://sqqx.hydroinfo.gov.cn/ryl/ryl.asp)

- **Hydrological Information**
  (http://sqqx.hydroinfo.gov.cn/websq/)

- **Water Quality Information**
  (http://sqqx.hydroinfo.gov.cn/shuizhi/)

- **Groundwater Information**
  (http://sqqx.hydroinfo.gov.cn/shuiziyuan/)
Contribution to GEOSS

We are working on the following points which will contribute to GEOSS:

• Upgrading hydrological network for collecting more information with high accuracy
• Establishing the national database for opening to the public
• Making the data policy for sharing with national and international agencies, and with the public.
• Participating international research program and project on water cycle and water resources.
• Promoting the technique exchange with the developed countries
• Paying high attention to information service for flood control and disaster mitigation on the international river.
Thanks