



National Flood Forecasting System (NFFS V3.0)

Bureau of Hydrology
Ministry of Water Resources, China
May, 2006

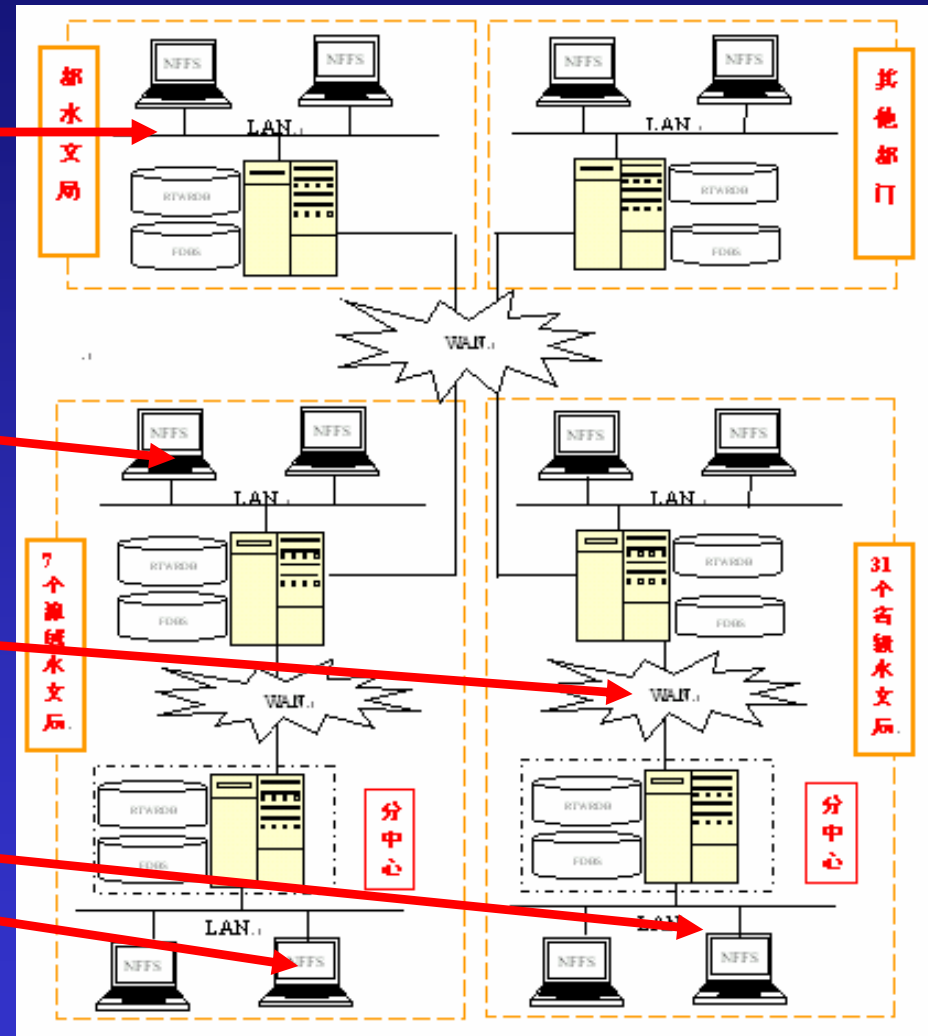


What can we do?

- Objection 1** To meet requirements for multi-sector & multi-site
- Objection 2** To develop easily the Other Flood Forecasting System
- Objection 3** To have the comprehensive system functions
- Objection 4** To improve the accuracy of flood forecasting using multi-method
- Objection 5** To extend the lead time of flood forecasting with multi-way
- Objection 6** To satisfy requirements of the reservoir operation
- Objection 7** To show promptly the results & performances
- Objection 8** To timely maintain and update the system

How to meet requirements for multi-sector & multi-site?

- Bureau of Hydrology
- 7 large river basin administrations
- 31 provincial Bureau of Hydrologies
- 224 local Bureau of Hydrologies

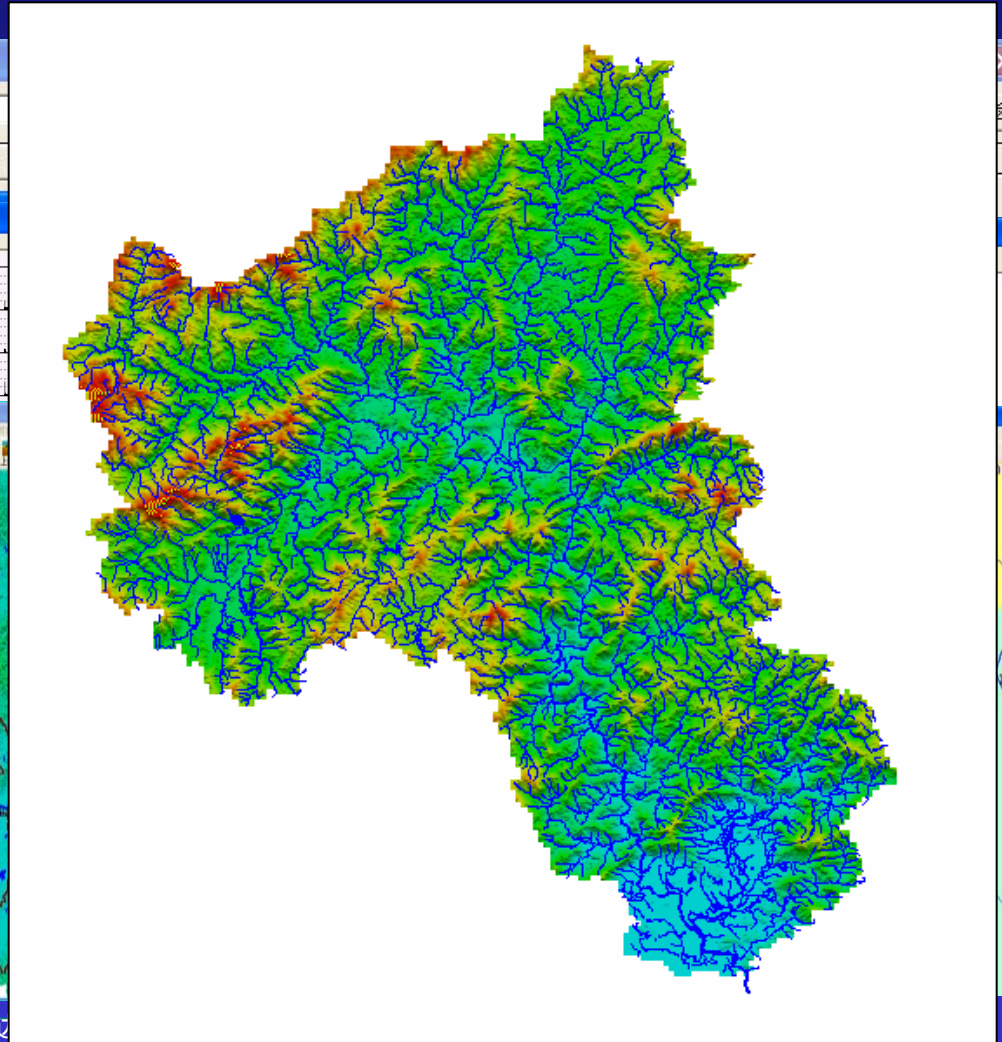
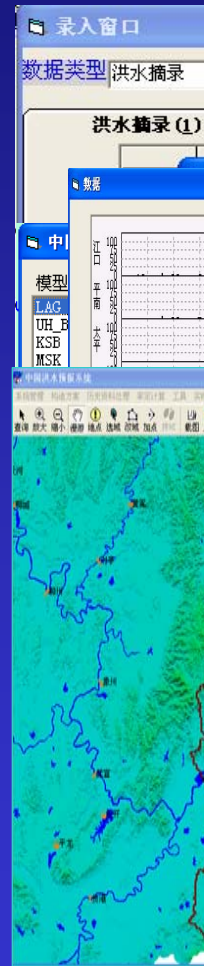


Forecasting sites : 1700 all over country

225 in Bureau of Hydrology

How to develop easily the Flood Forecasting System?

- GIS-based
- Data processing subsystem
- Flood forecasting model-base
 - automatic optimization
 - error trial
- Analyzing tools

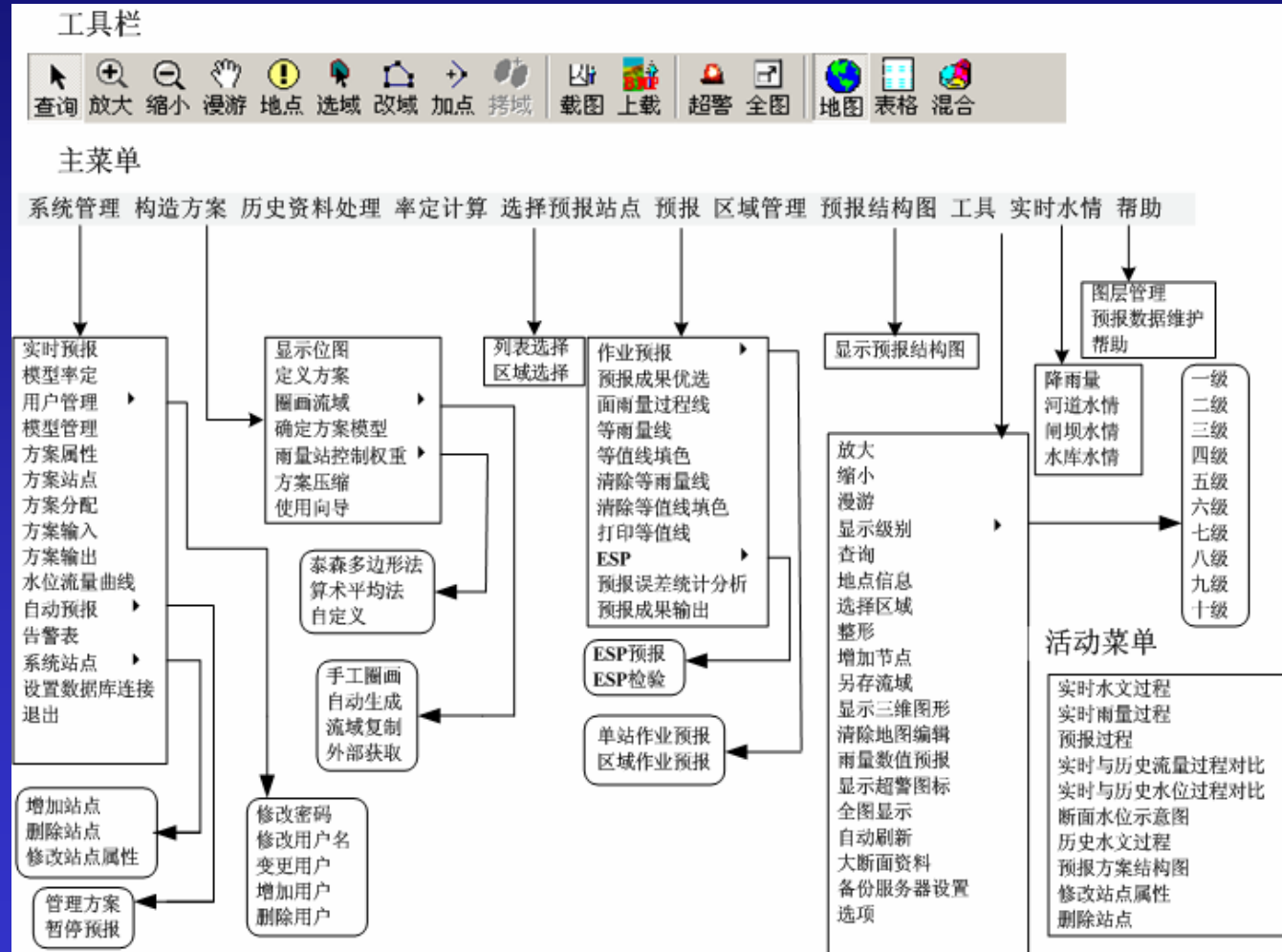


流域图

How to have the comprehensive system functions?

➤ 128 human-machine interactive interfaces

➤ 87 function menus



How to improve the accuracy of flood forecasting using multi-method?

➤ Optimization analysis among multi-model & multi-scheme

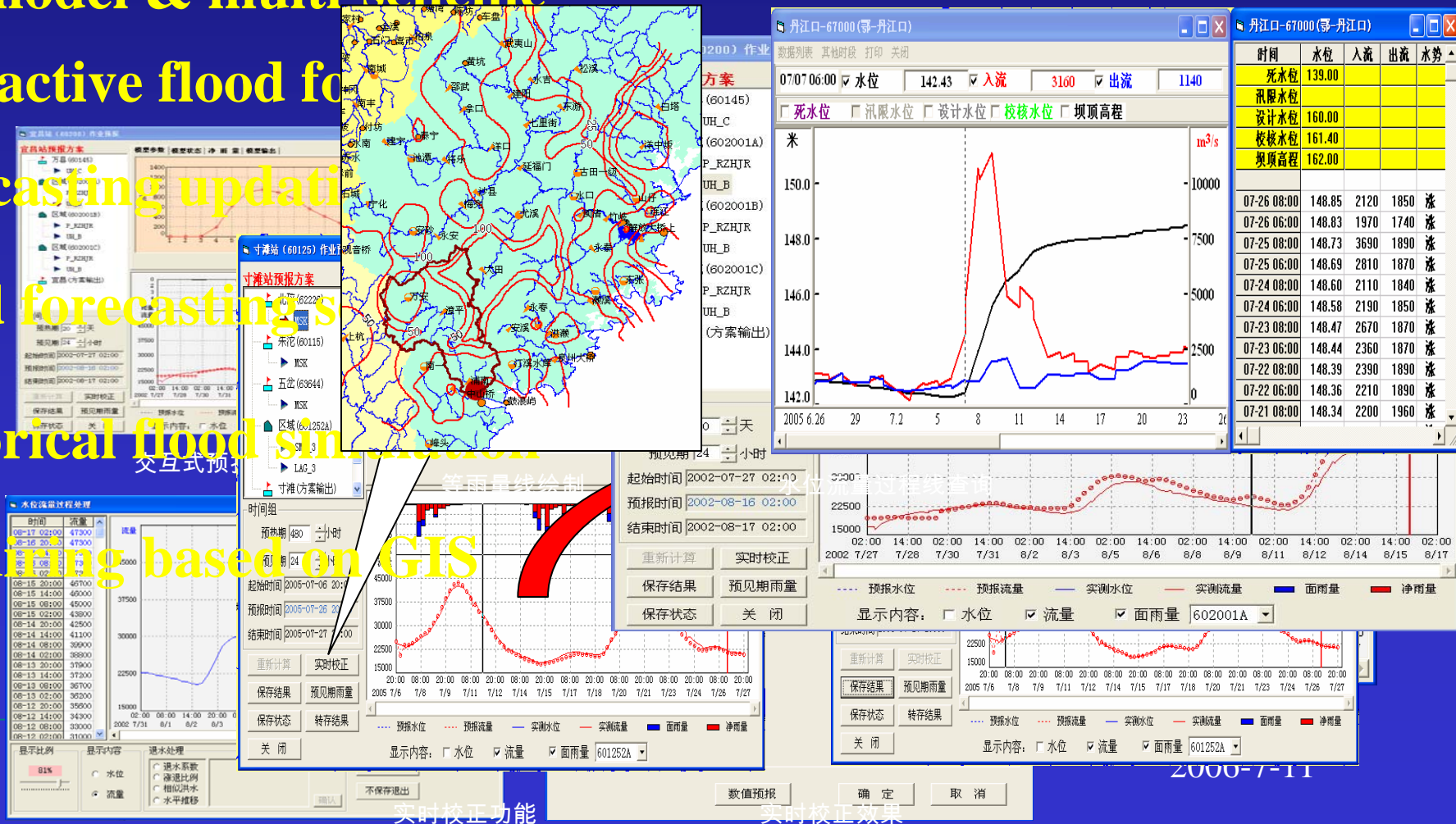
➤ Interactive flood forecasting

➤ Forecasting updating

➤ Build forecasting system

➤ Historical flood simulation

➤ Inquiring based on GIS



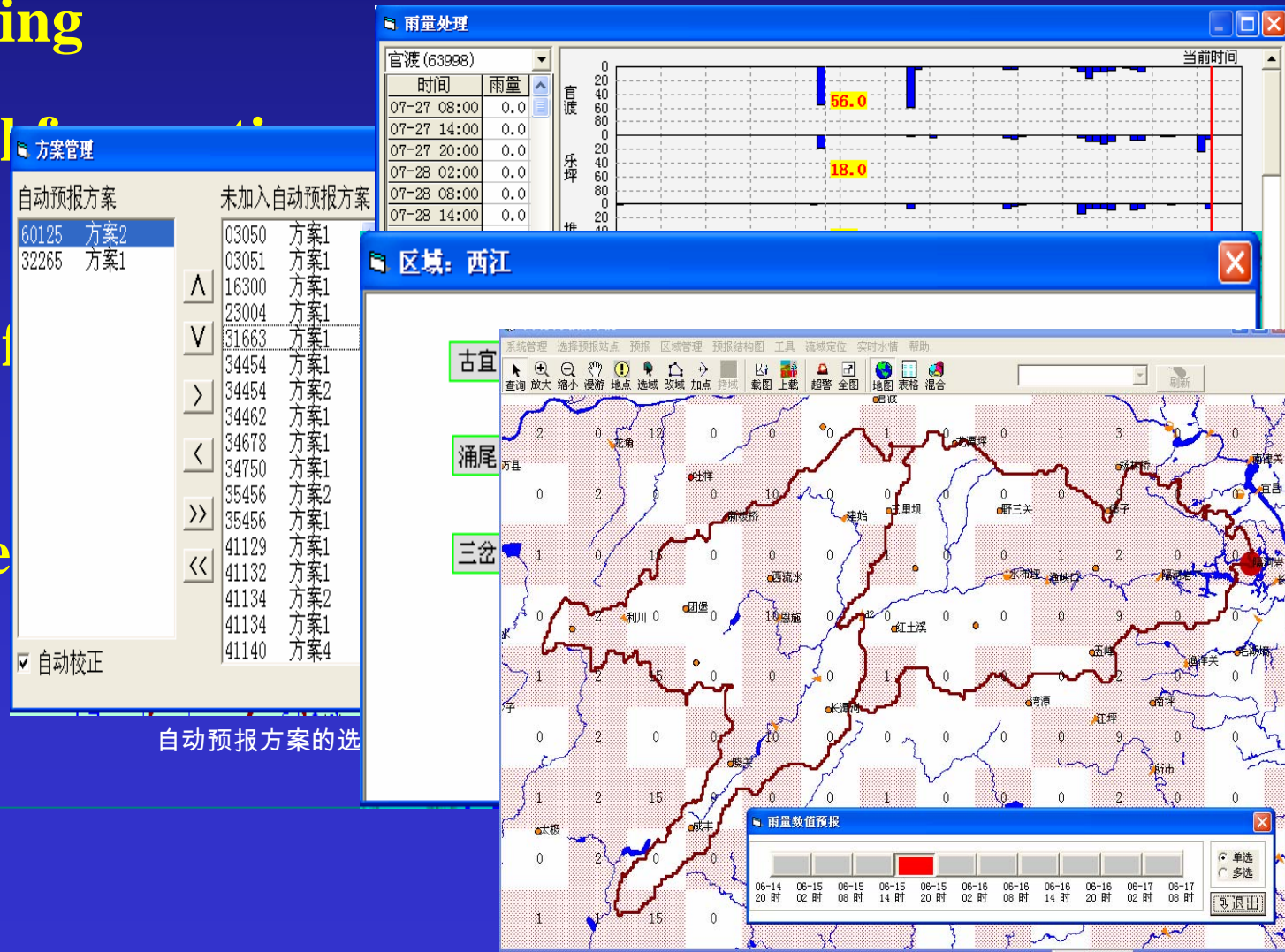
How to extend the lead time of flood forecasting with multi-way?

➤ Automatic timing forecasting & forecasting updating

➤ Flexible Manual forecasting analysis

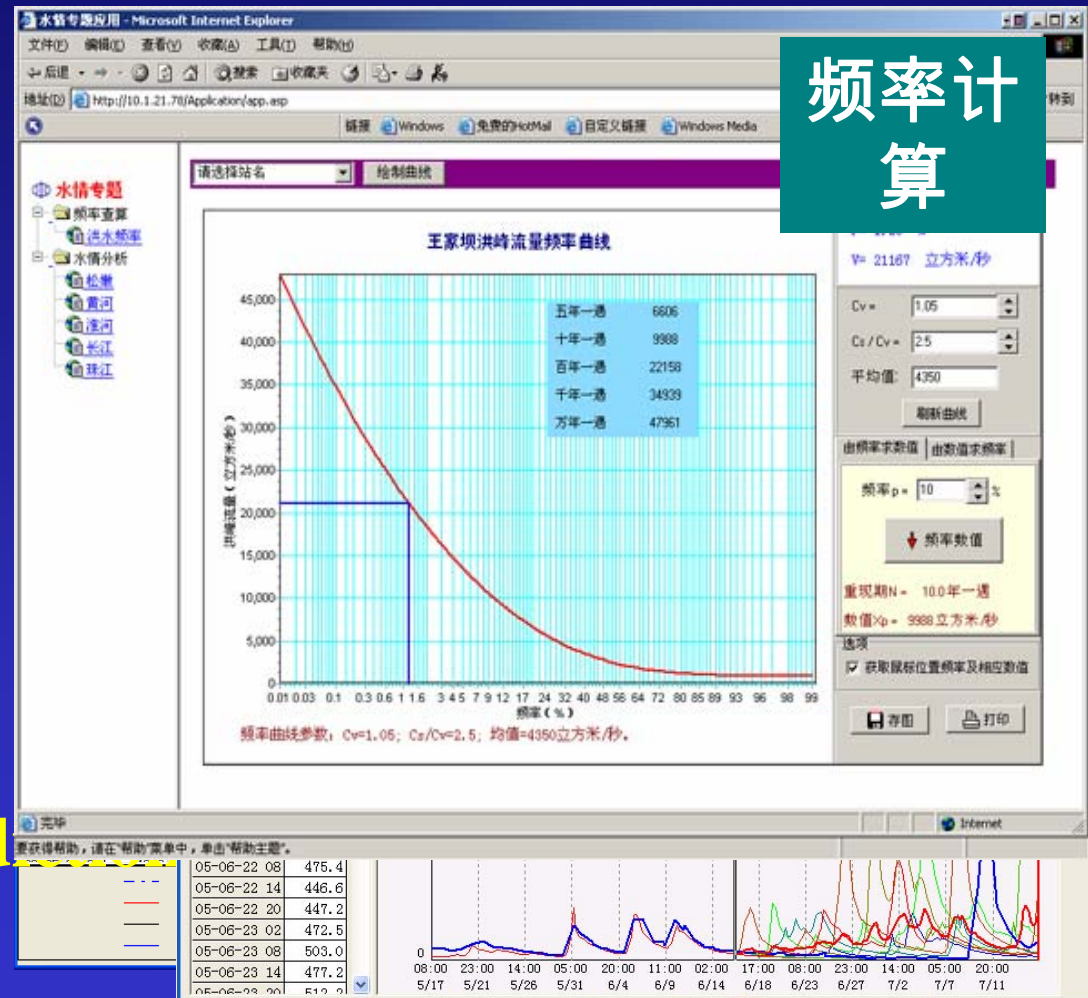
➤ River sequence forecasting

➤ Adoption of the estimation for pre



How to satisfy requirements of the reservoir operation?

- Command operation
- Regulation operation
- Gate height operation
- Controlled level operation
- Frequency analysis
- Extended streamflow prediction (ESP)



频率计算

How to show promptly the results & performances?

➤ To produce hourly the flood for forecasting sites by forecaster

➤ To inquire timely the real time forecasting results by decision-maker

预报告警表

站名	方案	预报时间
梧州	王伶俐 - 方案1	2005-08-02 14:00
梧州	王伶俐	2005-11-21 08:00
王家坝	李岩	2005-09-05 08:00
梧州	王伶俐	2005-07-31 02:00

NFFSCX

中国洪水预报查询系统

正在进行数据库连接...

版本信息 1.0
 联系电话 010-63202523
 邮箱地址 shuiqing@mwr.gov.cn
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预报结果报表

打印

预报成果分析

第 期

水利部水文局 2006年04月03日

预报断面: 51330 预报时间: 2005年8月30日 08:00

洪峰	水位	
	流量	1836
	发生时间	2005-08-30 20:00
洪量		558

流量

(请在此处输入说明)

签发: 审核: 预报员: 李岩

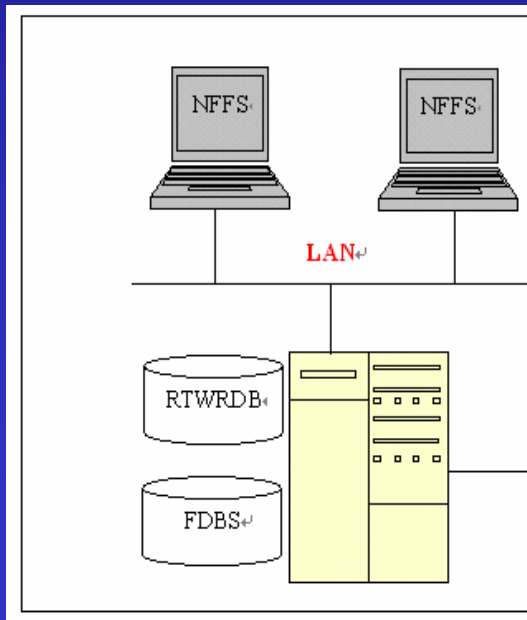
时间: 2005-06-14 14:00 实测 流量 22700 王伶俐

时间	王伶俐
05-06-23 20:00	54541
05-06-23 14:00	54792
05-06-23 08:00	55089
05-06-23 02:00	55370

特征值
 洪峰水位: 26.51米
 2005-06-22 20:00
 洪峰流量: 55428立方
 2005-06-22 20:00

How to timely maintain and update the system?

- Maintenance online
- Training year after year





Thank You
For your Attention!