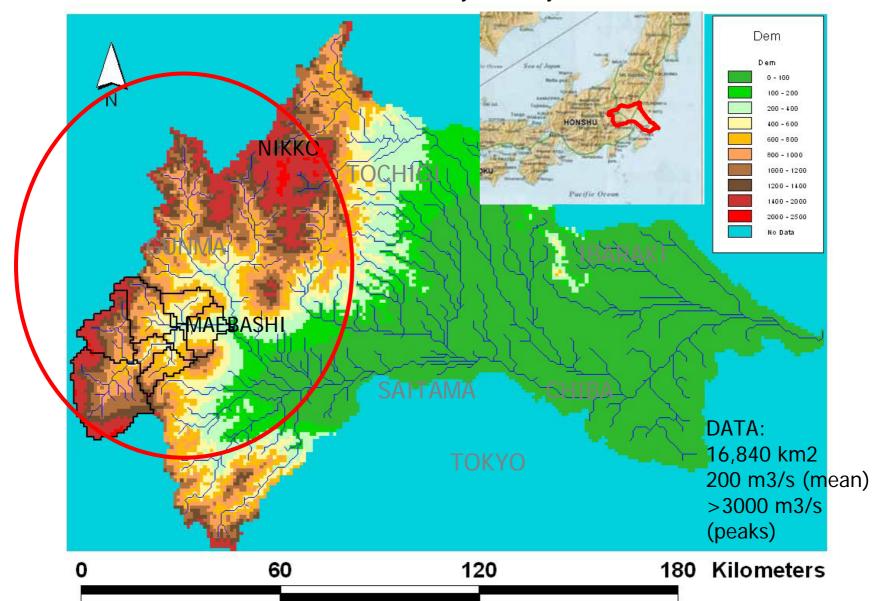
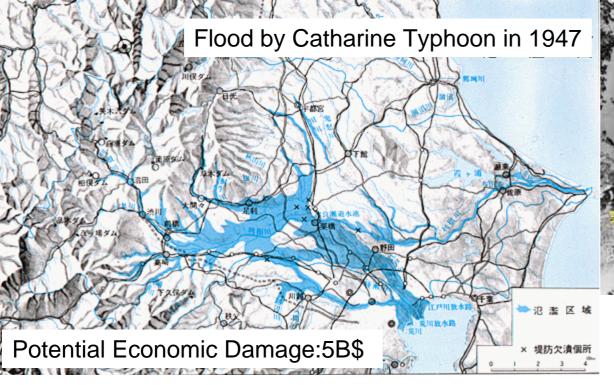
The Upper Tone River

Cooperation between River Bureau, Ministry of Land Infrastructure and Transport of Japan and the University of Tokyo





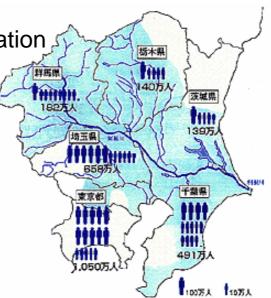


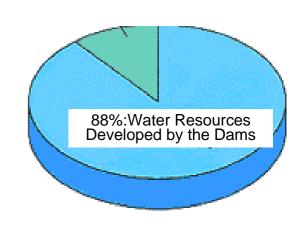
High Flood Risk to the Tokyo Metropolitan Area

Water Supply to the 27M population in the Tokyo Metropolitan Area

High Percentage of the Dam Supply

Importance of the Group Management of the Dams



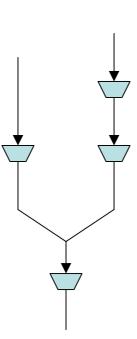


Needs

To reduce flood peak, make maximum use of water resources, and conserve the river ecosystem by effective group operation of the dams











Available Data

•Radar-Rain Gauge Merged Products
•Metagralagical Data

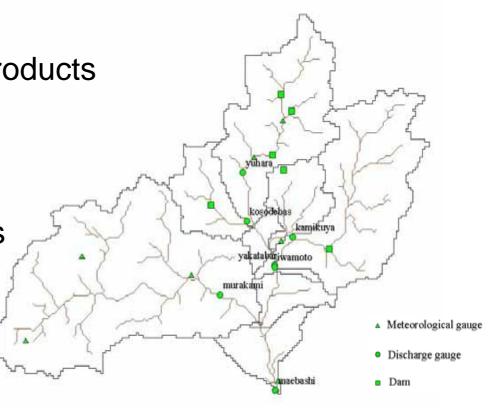
Meteorological Data

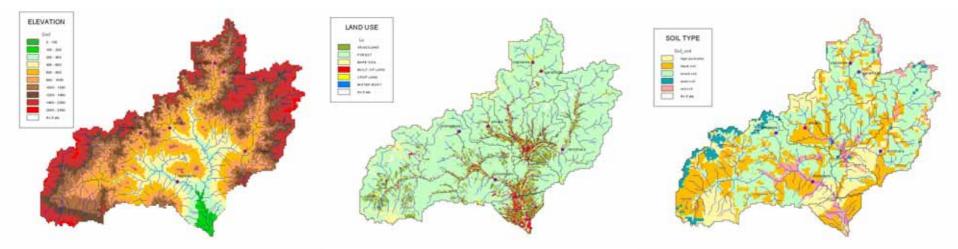
River Discharge

Dam Control

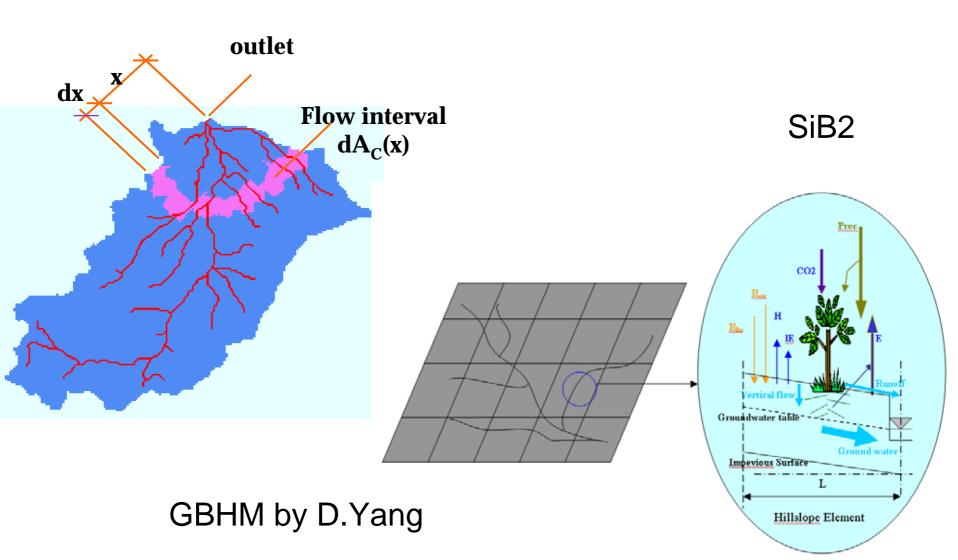
•DEM

Soil/Geology/Vegetation Maps

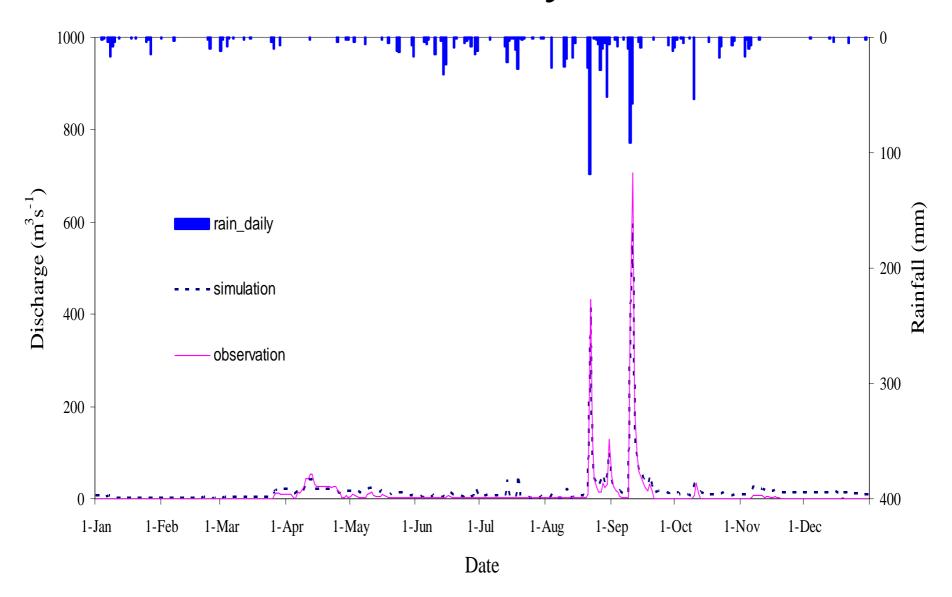




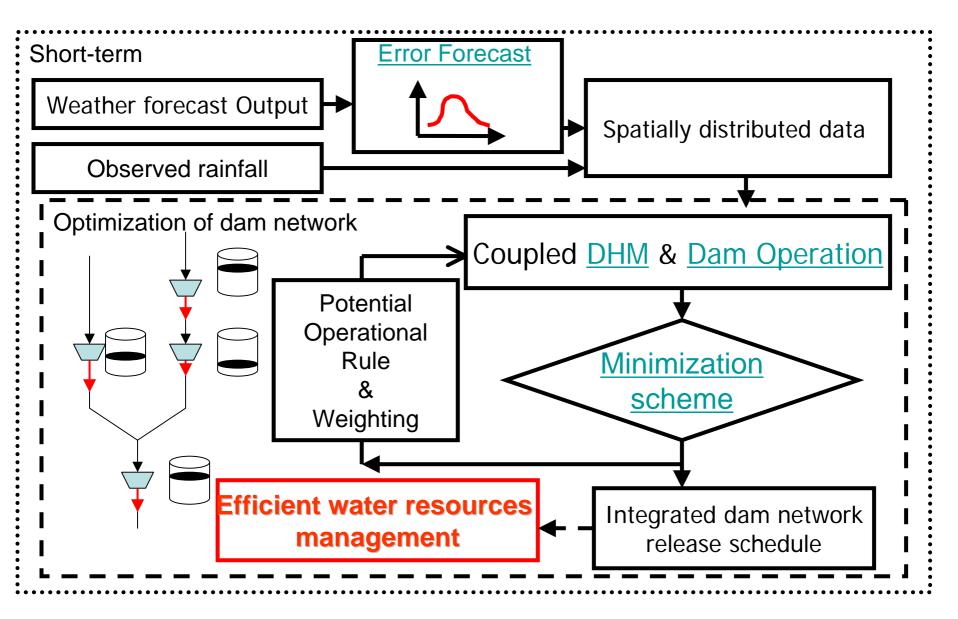
A Distributed Hydrological Model Coupled with a Land Surface Scheme



Kamikuya



Dam Operation Optimization System by Using Rainfall Forecasting



Results Agatsuma

