About the final thematic workshop on water allocation and water rights

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Contents

- 1. Introduction
- 2. Summary of the former workshops & discussions
- 3. About Sessions
- 4. About Lecture
- 5. About Field Trips

Introduction ~ General Info

- Venue: Saitama, Japan
- 4th host organization: Head Quarter, Japan Water Agency (JWA)
- Date: 23rd 26th, January, 2007
- Sessions for 2.5 days, Field trips for 1.5 days

Introduction ~ What is the thematic workshop?

- Focused and specific theme
- Small scale & profound discussion
- Improvement from the pragmatic and practical viewpoint
- Simple style
- Series of workshops (4 times)

Summary of the former workshops & discussions

- 1st workshop : Stage of grasping issues
- 2nd workshop : Stage of causal analysis & proposal
- 3rd workshop : Stage of review

About Sessions

- Session 2 on Day 2 (Morning) and Day 4
- We mean to focus on the presentation on the final action program.
- Presentation time will be 30 minutes; Q&A and discussion time will be 30 minutes
- After that, session for revision (Session 3) will be held (on Day 4) for about 1 hour

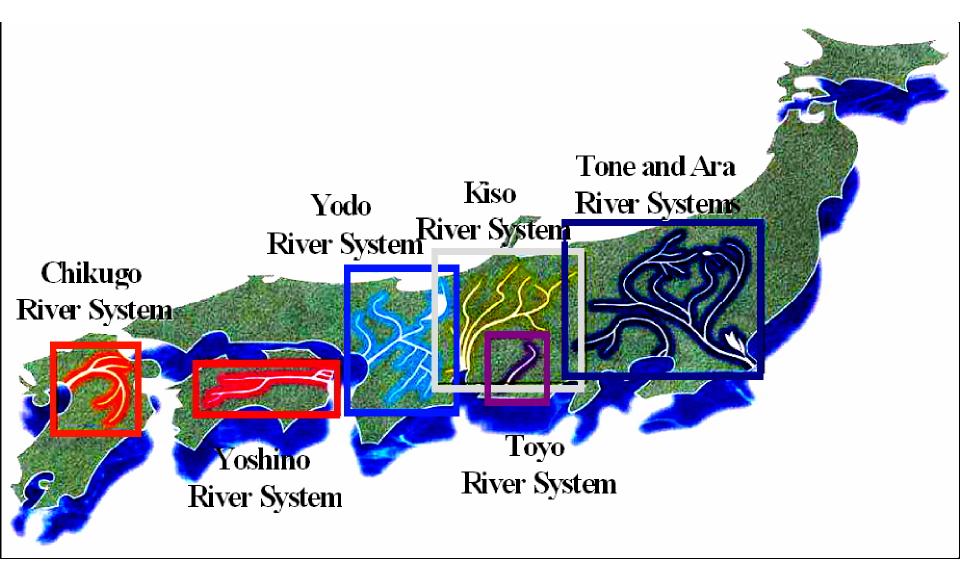
About Lecture

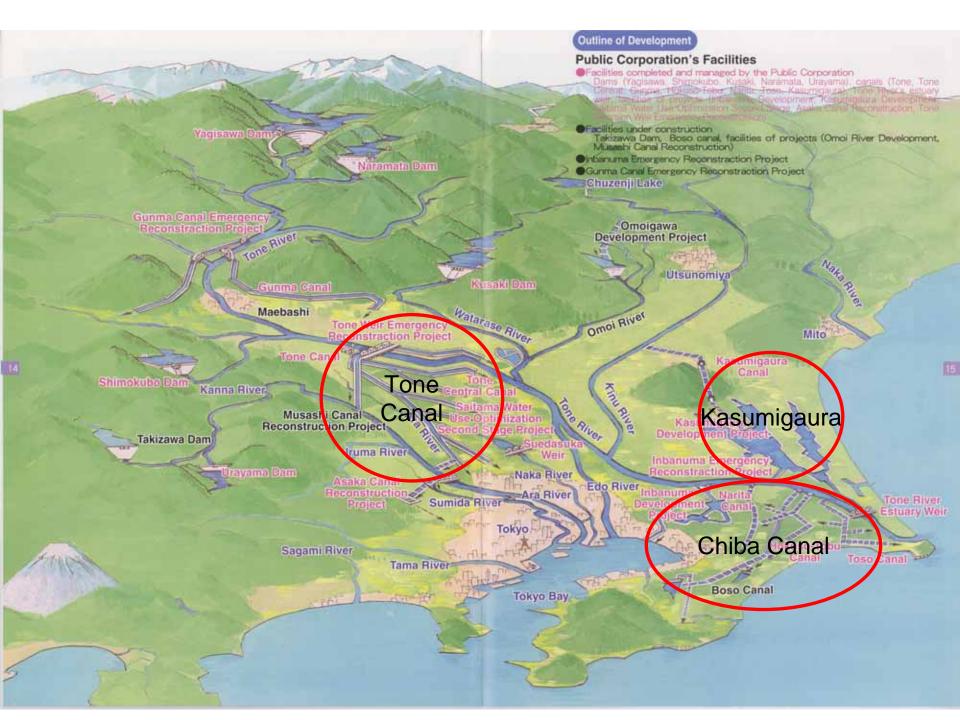
- Given by Professor Tsuneaki Yoshida, University of Tokyo
- Date: 23rd Jan, PM
- Venue: Ministry of Land, Infrastructure and Transport (MLIT)
- Theme: Case Study on Improving Water Issues in Japan, Taking Aichi Canal as an Example

About Field Trips

- 24th Jan (Wed) PM, Tone Canal
- 25th Jan (Thu) AM, Kasumigaura Lake PM, Chiba Canal

Field Trips





Field Trips – Tone Canal

- Representative canal project for water-utilization in Japan, constructed in 1963-1968 (around when holding Tokyo Olympic), and have been managed from 1968 by JWA.
- Comprehensive project for water-utilization (for multiple water usage)
- Making great contribution to supplying municipal water in metro Tokyo and Saitama as well as irrigation water
- This project includes water re-allocation (transfer from irrigation water to drinking water).
- As of December 2005, a cumulative total of 70 million cubic meters of water had been obtained from Tone River.

Field Trips – Tone Canal

- The purpose of the project
 - 1) To provide drinking and industrial water for Tokyo and Saitama Prefectures
 - 2) To provide irrigation water to 29,000 ha land situated in the middle reaches of the Tone River system
 - 3) To provide water for purging the Sumida River temporarily

Field Trips – Kasumigaura Lake

- Second biggest lake in Japan
- Located in Ibaraki Prefecture, Kanto District
- Lake development project had been carried out by the Ministry of Construction (MOC) and the Water Resources Development Public Corporation (WARDEC) (1968-1996)
- The construction works includes lakeshore bank construction, inflow river works, and pipeline installation between the Lake and the Tone River.

Field Trips – Kasumigaura Lake

| Lake | | |
|-------------------------------------|------------------------|--|
| Lake area | approx. 220km2 | Nishiura 172km2, Kitaura 36km2 Hitachi-Tone River, etc 12km2 |
| Lake coast line | approx. 252km | Nishiura 122km, Kitaura 75km Hitachi-Tone River, etc 55km |
| Lake capacity | approx. 850 million m3 | |
| Depest point | 7m | Avarage depth 4m |
| Situation of the catchment area | | |
| Catchment Area | 2,157km2 | Accounts for about 1/3 of the total 6,090 km2 area of the Ibaraki Prefecture |
| Municipalities in catchment area | 24 municipalities | Ibaraki Pref: 17 cities, 4 towns and 1 villege Chiba Pref: 1 city, Tochigi Pref: 1 town |
| Municipalities around lake | 13 municipalities | Ibaraki Pref: 10 cities, 1 towns and 1 villege Chiba Pref: 1 city |
| Avarage annual precipitation | 1,147mm | Avarage precipitation from 1996 to 2005 |

Field Trips – Kasumigaura Lake

- The purpose of the project
 - 1. Flood control
 - 2. Irrigation water for Ibaraki and Chiba Prefecture
 - 3. Drinking water for Ibaraki, Chiba, and Tokyo Prefecture
 - 4. Industrial water for Ibaraki and Chiba Prefecture

Field Trips – Chiba Canal

- Visit to Inba-pond (part of the Chiba Canal) and its beneficiary areas
- The project contributes to water utilization as well as flood control
- Discussion session will be held with the member of the Inba-pond Land Improvement District (LID)
- Suffering from lack of budget for facility management, so the work office has made some efforts in facility management to deal with the budget lacking.
- Effort for improving pond water quality

Field Trips – Chiba Canal

- The purpose of the project
 - 1. Drainage of inner water
 - 2. Irrigation water for Chiba Prefecture
 - 3. Drinking water for Chiba Prefecture
 - 4. Industrial water Chiba Prefecture

What is Land Improvement District (LID) ?

- LID is a kind of Water User Association (WUA), which is stipulated by the law (Land Improvement Act).
- LIDs are organizations which are composed of farmers through managing irrigation water in the relevant region.
- LIDs have a function to manage their canal systems to convey irrigation water to each farmer.
- Concerning the JWA's irrigation facilities, LIDs themselves are often main water users.
- Concerning the JWA's irrigation facilities, JWA often manages only main canals and the management of secondary canals often entrusted with LIDs concerned.
- JWA manages its canal systems in collaboration with water users including LIDs.