

# Session Report of AP-BON Freshwater Working Group

2011.12.2-3

Akasaka, Tokyo



December 2

13:00-18:00 (Coffee break 15:00-15:20)



13:00-13:10 Self-introduction

13:10-13:40 Introduction of AP-BON Freshwater Group  
Implementation Plan, by Nakano

13:40-14:10 Introduction of the research project on "Observation,  
Evaluation and Prediction of Biodiversity in Asia" by the  
Environment Research and Technology Development Fund  
(ERTDF), "Quantitative assessment of biodiversity loss in  
limnetic environments" (Nakano)

14:10-14:40 Remote sensing (Fukushima)

14:40-15:10 Lakes (Takamura or Nakano)

15:10-15:20 Coffee break

15:20-15:50 Impoundments (Takamura or Nakano)

15:50-16:10 Wetlands (Nakano)

16:10-16:40 Rivers/streams (Nakamura)

16:40-17:10 Lake Biwa (Nakano)

17:10-17:40 Studies in other Asian countries/regions (Nakano)

17:40-18:00 General discussion

## December 3

- 9:30-9:45 Introduction of Limnology Center, LIPI (Hartoto)
- 9:45-10:00 Introduction of Wuhan Hydrobiological Institute, CAS (Gao)
- 10:00-10:20 Coffee break
- 10:20-12:00 General discussion for future collaboration, and preparation for the afternoon session



## メンバー:

### 【Invited】

1. Shin-ichi Nakano (CER, Kyoto Univ)
2. Noriko Takamura (NIES)
3. Takehiko Fukushima (Tsukuba Univ)
4. Futoshi Nakamura (Hokkaido Univ)
5. Dede Irving Hartoto (LIPI, Indonesia)
6. Xin Gao (Institute of hydrobiology, Chinese Academy of Sciences, China)

### 【delegates】

1. Takehito Yoshida (Univ Tokyo)
2. Shinichiro Matsuzaki (NIES)
3. Junya Shibata (CER, Kyoto Univ)
4. Yoji Natori (Conservation International)
5. Phillips Adele (UNU-IAS)
6. Martha Mphatso Kalemba (UNU-IAS)

The aim of December-2 session:

- To understand history and status quo of AP-BON freshwater group (including IP): Why we are here?
- To understand what is going on for S9-freshwater project
- To know each other as much as possible.

The aim of December-3 session:

- To know more about foreign institution: how it is, people, what kind of researches are conducted, availability of biodiversity information
- Future collaboration

December-2 session

# History of our Freshwater WG

1. Discussions of J-BON Freshwater Group at J-BON W/S in May 2009, Tokyo
2. “Environmental and/or Biodiversity Monitorings in Freshwater Systems of Asian Countries”, talked at 2nd AP-BON W/S in December 2009, Tokyo
3. “Freshwater Monitoring WG of AP-BON, Draft Implementation Plan”, discussed at 3rd AP-BON W/S in 23 March and revised using e-mail discussions in June 2010
4. The IP had submitted to Prof. Yahara in September 2010
5. March 11
6. S9 project “Quantitative assessment of biodiversity loss in limnetic environments” has been initiated since the last July.
7. Today



# Introduction

This working group, AP BON Freshwater Monitoring (AP BON FWM) focuses on monitoring freshwater biodiversity at the genes, species and ecosystem levels.

## Concepts to be implemented

IP, page 12, “Concepts,,,,,”: GEO BON aims to make it possible for each biodiversity observation anywhere in the world to contribute to improved understanding of the current status of global biodiversity.

IP, page 12, “Concepts,,,,,”: GEO BON WG4 will seek to facilitate research on freshwater biodiversity by identifying key research questions, creating networks of researchers interested in addressing these questions, and supporting applications for research funding,,,,,,.

However, the fruits (data) derived from the monitoring which are not included in a world-wide network are still individually or independently stored, and this is probably dominant in environmental/biodiversity monitoring and conservation activities in Asian freshwater systems.





IP, page 13, “Concepts,,,,,”: AP BON FWM will also do the same way as WG4 with special reference to Asian freshwaters, helping the activities of WG4 by sharing the information about environmental/biodiversity monitoring and conservation activities in Asian freshwaters.

IP, page 13, “Concepts,,,,: ,,,,it is a central assumption of GEO BON that it will be based on, and contribute to publicly accessible data, via online and widely distributed reports/publications. So, we promote the importance of GEO BON activities, ask international, national and local organizations and individuals to share the information about environmental/biodiversity monitoring and conservation activities in Asian countries and facilitate the compilaion of data through GEO BON WG4.



# "Observation, Evaluation and Prediction of Biodiversity in Asia" Principal Investigator: Tetsukazu YAHARA (Kyushu University)

Having crossed into the "Asian Millennium", many Asian countries are now rapidly growing their economies and social infrastructures. This, on the other hand, is causing a rapid loss of Asian biodiversity, giving us an urgent mandate to work toward achieving a harmonious balance between development and conservation in the region.

To provide a quantum step forward in advancing science that optimizes the synergy between development and biodiversity conservation in Asia, we will conduct the research project above. This study was carried out to design a strategic research and development project on biodiversity observations and assessment in Asia scale that will be promoted from 2011 to 2015 by the Ministry of the Environment.



December-3 session



# RESEARCH CENTER FOR LIMNOLOGY INDONESIAN INSTITUTE OF SCIENCES



**Limnology** : a science that reveal the biological, chemical and physical features and their functional interrelationship in inland water → inter-discipline and multi-discipline

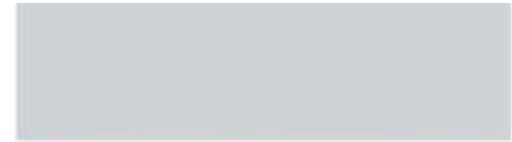
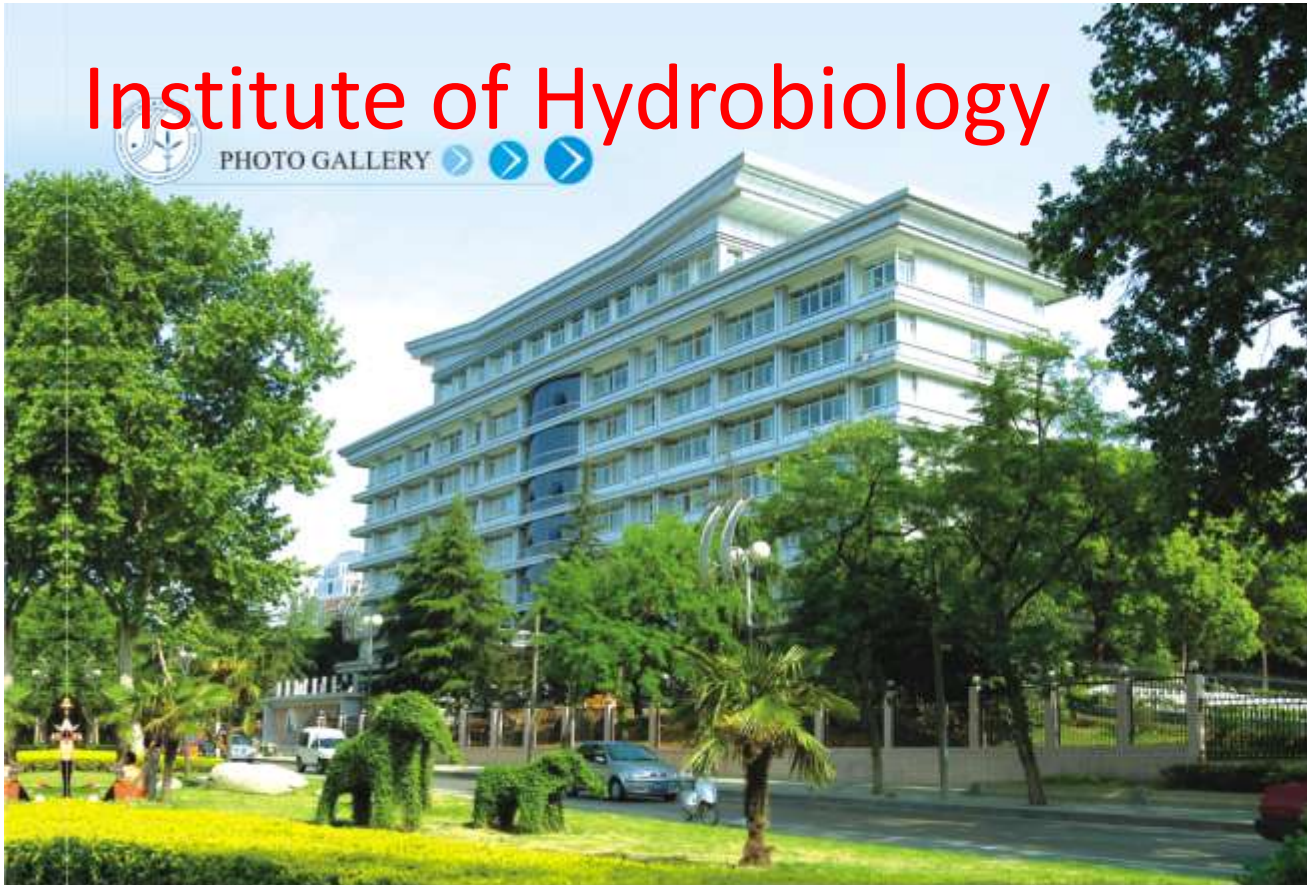
JSPS-LIPI program (Bilateral Programs: Joint Research Projects and Seminars) : Rp 250 M/year, deadline September 5 2011

- RC Limnology :
  - Ignasius D.A. Sutapa
  - Hendro Wibowo
  - Fachmijany S
  - Luki Subehi
- University of Tsukuba
  - Prof. Takehiko Fukushima
  - Ass Prof. Bunkei Matsushita

# Institute of Hydrobiology



PHOTO GALLERY



Administrative Building



A Corner of the Institute



Donghu Experimental Station of Lake Ecosystems

# Important materials for collaboration

Indonesia: Prof. Hartoto has strong connection with Indonesian limnologists who have the plenty of biodiversity information. Prof. Hartoto will kindly make arrangement on data sharing between Indonesian and Japanese scientists.

China: Chinese freshwater researchers have published numerous articles which reports biodiversity in Chinese freshwaters. However, some of them are written in Chinese language. Also, it is not so easy for Japanese researchers to collect those articles.

Prof. Gao will discuss about Chinese researchers' support for collection and understanding of those Chinese articles by Japanese researchers. In addition, Prof. Gao will discuss with his colleagues at Wuhan Institution on future collaboration on biodiversity with Japanese researchers.

## The way of S9/AP-BON freshwater group for collaboration with Asian countries

- **MoU between RC Limnology LIPI and S9-freshwater, and between IHB and S9-freshwater:** the researchers who belong to those two institution covers over the research topics treated by S9-freshwater members.
- **One person who make arrangement for collaboration will be identified in each institution.** For Indonesia, Prof. Hartoto will. For China, Prof. Gao will have discussions with IHB people.
- **For IP,** Nakano will revise the present IP, using the discussions held in December 2 and 3 sessions, and we will have e-mail discussions to finalize our IP.