

A Workshop
for the
2012 Jeju World Conservation Congress (WCC)

Tetsukazu Yahara
Kyushu University, Japan

THE STATUS OF THE AP-BON AND J-BON

GEO: GROUP ON EARTH OBSERVATION

Launched by the G8; its first plenary meeting held in May 2005 in Geneva



2005-2015: 10 year implementation plan

History of GEO BON

2006: **User Needs workshop**, Geneva 23-25 October

2007: **GEO Ministerial** in Cape Town

2008: **Interim GEO BON Committee** formed 14-16 January

- Draft **GEO BON concept document** produced

2008: **2nd International workshop**, Berlin/Potsdam 8-10 April

- Draft **GEO BON concept document** discussed and amended, first implementation steps planned

GEO GROUP ON EARTH OBSERVATIONS

Biodiversity Observation Network

GEO Biodiversity Observation Network

– 2nd International Workshop –

8-10 April 2008
Potsdam/Berlin

Establishing a network to implement a global biodiversity observation system that will collect, manage, analyze, and share data on the status and trends of the world's biodiversity

Federal Ministry of Education and Research

DIVERSITAS
an international programme of biodiversity science

NASA

INITIATIVES SPONSORED BY MOE, JAPAN

ESABII

AP-BON

East and Southeast Asia Biodiversity Information Initiative



Targeting area: East and Southeast Asia

Biodiversity Centers ★

Japan: Biodiversity Center of Japan

Korea: National Institute of Biological Resource (NIBR)

China: Chinese Academy of Science

Indonesia: Research Center of Biology (RCB), LIPI

Vietnam: Center for National Resources Management and Environmental Studies (CRES) VNU.

ASEAN: ASEAN Center for Biodiversity (ACB)

S-CBD: Secretariat of Convention on Biological Diversity

Asia-Pacific Biodiversity Observation Network

Targeting East Asia and Pacific Region

- Identification of existing researches on biodiversity
- Distribution of Monitoring sites
- Development of standardized data collection
- Data integration, storage and analysis
- Capacity building for data collection and data analysis
- Provision and dissemination of the information



↓ -Data provision/sharing

GEO-BON GBIF

↕ Collaboration

Contribution ↗

ILTER
NaGISA (CaML)
Other programmes

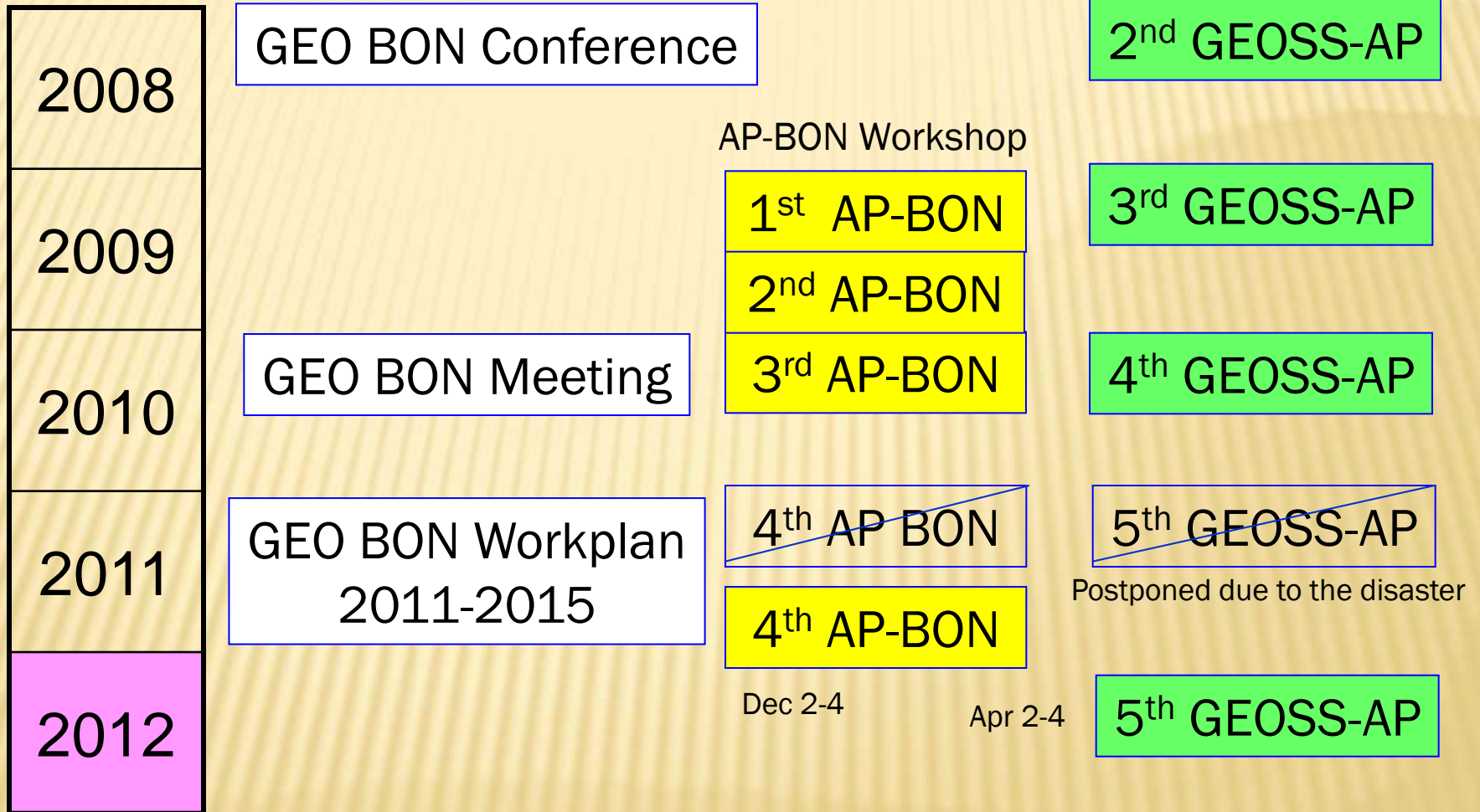
- Data collection and its standardization
- Data integration and analysis
- Capacity building

Decision Making in Biodiversity Conservation

J-BON

a voluntary network of Japanese scientists

DEVELOPMENT OF AP-BON



MOE project started from July 2011 to support AP-BON

ASIA-PACIFIC BON: STATUS

- ✘ A network is established,
 - + A regional network corresponding to GEO BON
 - ✘ and for capacity building activities.
 - + Covering all countries of the Asia-Pacific region.
 - + Covering all levels and all ecosystems.
- ✘ Organization:
 - + Co-chairs: T Yahara & R Fuentes (ACB)
 - + Secretariat: Biodiversity Center, MoE, Japan
 - + Steering committee: Ma (China), Kim (Korea), Nakashizuka (J), Shirayama (J), Nakano (J)
- ✘ Website; Available, although preliminary.
- ✘ Mailing list; Launched with ca. 100 members.

AP-BON VISION

- × To establish a Coordinated Asian Network that gathers and shares information on biodiversity and ecosystem services
- × To provide tools for data collection, sharing/exchange, analysis, and synthesis/integration, and
- × To contribute to improving ecosystem management, sustainable use of biodiversity and human well-being

AP-BON MISSIONS

- ✘ Observing and analyzing changes in biodiversity over time.
- ✘ Improving delivery of biodiversity information and services to users, particularly decision-makers.
- ✘ Facilitating linkages among many countries, organizations and individuals contributing to biodiversity observations.
- ✘ Identifying gaps between existing biodiversity observation systems and promoting mechanisms/projects to fill them.

AP BON WORKING GROUPS

- ✘ 1: Genetics/phylogenetic diversity
- ✘ 2: Terrestrial species monitoring
- ✘ 3: Terrestrial ecosystem change
- ✘ 4: Freshwater ecosystem change
- ✘ 5: Marine ecosystem change
- ✘ 6: In-situ / remote-sensing integration

Draft
implementation
discussed
in 4th AP-BON
workshop



Discussed in 5th GEOSS-AP symposium

The first volume of AP-BON Book will be published in March 2012

Ecological Research Monographs

Ecological Research Monographs

S. Nakano · T. Yahara · T. Nakashizuka Eds.
The Biodiversity Observation Network in the Asia-Pacific Region



S. Nakano · T. Yahara · T. Nakashizuka Eds.

Biological diversity is important for ecosystem function and services, which in turn is essential for human well-being. Under the Convention on Biological Diversity, international efforts have been made to achieve a significant reduction in the current rate of biodiversity loss. The loss continues, however. The Asia-Pacific region includes both developing countries with high biodiversity and developed countries with sophisticated data collection and analyses, but only limited information about the status quo of biodiversity in this region has been available. Many Asia-Pacific countries have rapidly grown their economies and social infrastructures, causing a loss of biodiversity and requiring an urgent mandate to achieve a balance between development and conservation in the region. In December 2009, scientists successfully organized the Asia-Pacific Biodiversity Observation Network in the region, to establish a network for research and monitoring of ecosystems and biodiversity and to build a cooperative framework. The present volume is the first collection of information on biodiversity in the Asia-Pacific and represents a quantum step forward in science that optimizes the synergy between development and biodiversity conservation.

The Biodiversity Observation Network in the Asia-Pacific Region

S. Nakano · T. Yahara
T. Nakashizuka *Editors*

The Biodiversity Observation Network in the Asia-Pacific Region

Toward Further Development of Monitoring

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springer.com

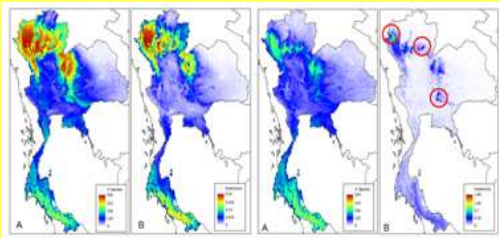
 Springer

MOE Strategic R&D 2011-15: themes

- Developing models and tools to observe/assess biodiversity changes in Asia
- Developing models and tools to observe/assess loss of ecosystem services in Asia
- Developing models and tools to identify hot spots and EBSA in Asia

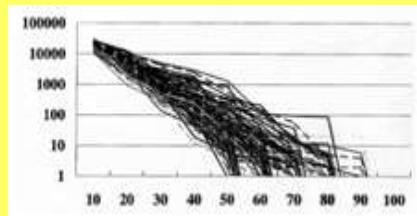
Theme 2

Gene and species
diversity changes



Theme 1

Modeling bio-
diversity changes &
developing policy



Theme 3-5

Changes in
forest, freshwater
& marine
ecosystem



Contribution to IPBES, GEO BON, CBD, REDD+, & National Strategy

CANDIDATE MOUNTAINS FOR TRANSECT SURVEYS

Collaboration of Asian scientists is inevitable

