

**The Third GEOSS Asia-Pacific Symposium:
Data Sharing for a Transverse GEOSS
A parallel session**

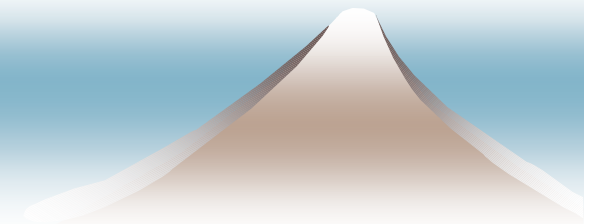
Monitoring changes in ecosystem, biodiversity and ecosystem services

Chair: Tetsukazu Yahara
DIVERSITAS / Kyushu University, Japan



Session Program

- ◆ **Model project on data management of ecosystems** (H. Kunii, Shimane University, JaLTER)
- ◆ **ECOSMAG: An Integrative Research on Ecosystem Services Management in Asia** (Suneetha Subramanian, LAND Office, UNUU)
- ◆ **Vegetation monitoring using satellites** (Rikie Suzuki, JAMSTEC)
- ◆ **The formation of GEO BON** (Sebastien Miazza, GEO)
- ◆ **The role for GBIF in biodiversity monitoring** (Keiichi Matsuura, GBIF)
- ◆ **East and Southeast Asia Biodiversity Inventory Initiative** (Noriaki Sakaguchi, Biodiversity Center of Japan)



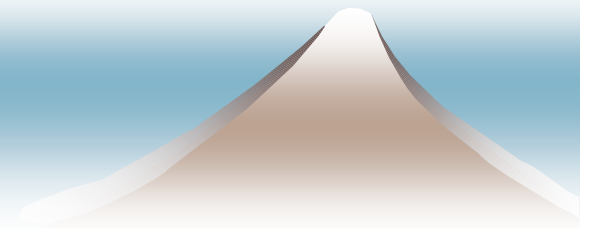
Timetable

- ◆ 9:00-9:10 Introduction
- ◆ 9:10-11:30 Six talks (20 min for each)
 - Ecosystem and ecosystem services
 - Progress of biodiversity monitoring
- ◆ 11:30-12:00 Discussion for the points reported in the morning session of Feb 6



In the reception

- ◆ Yahara: Happy to see you. I am going to chair the biodiversity session.
- ◆ MEXT: Thank you for chairing the session. Biodiversity is difficult to understand, isn't it? (生物多様性は難しいですね)
- ◆ Yahara: ??
- ◆ MEXT: If we (MEXT) could do anything on biodiversity, it might be the case that biodiversity research could improve the accuracy of carbon estimation for better understanding the global warming.

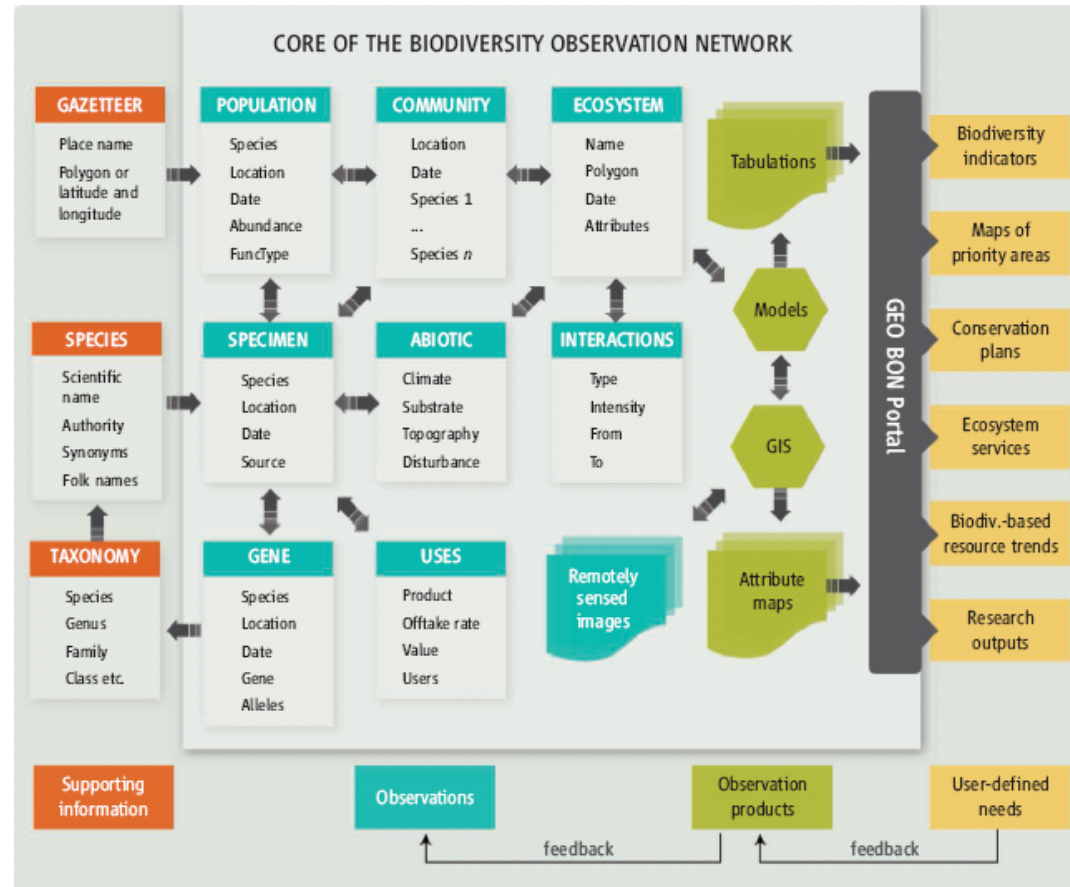


Many bad news

- ◆ Forest decline and the loss of terrestrial biota
- ◆ Water pollution and the loss of freshwater biota
- ◆ Coral bleaching and the loss of marine biota

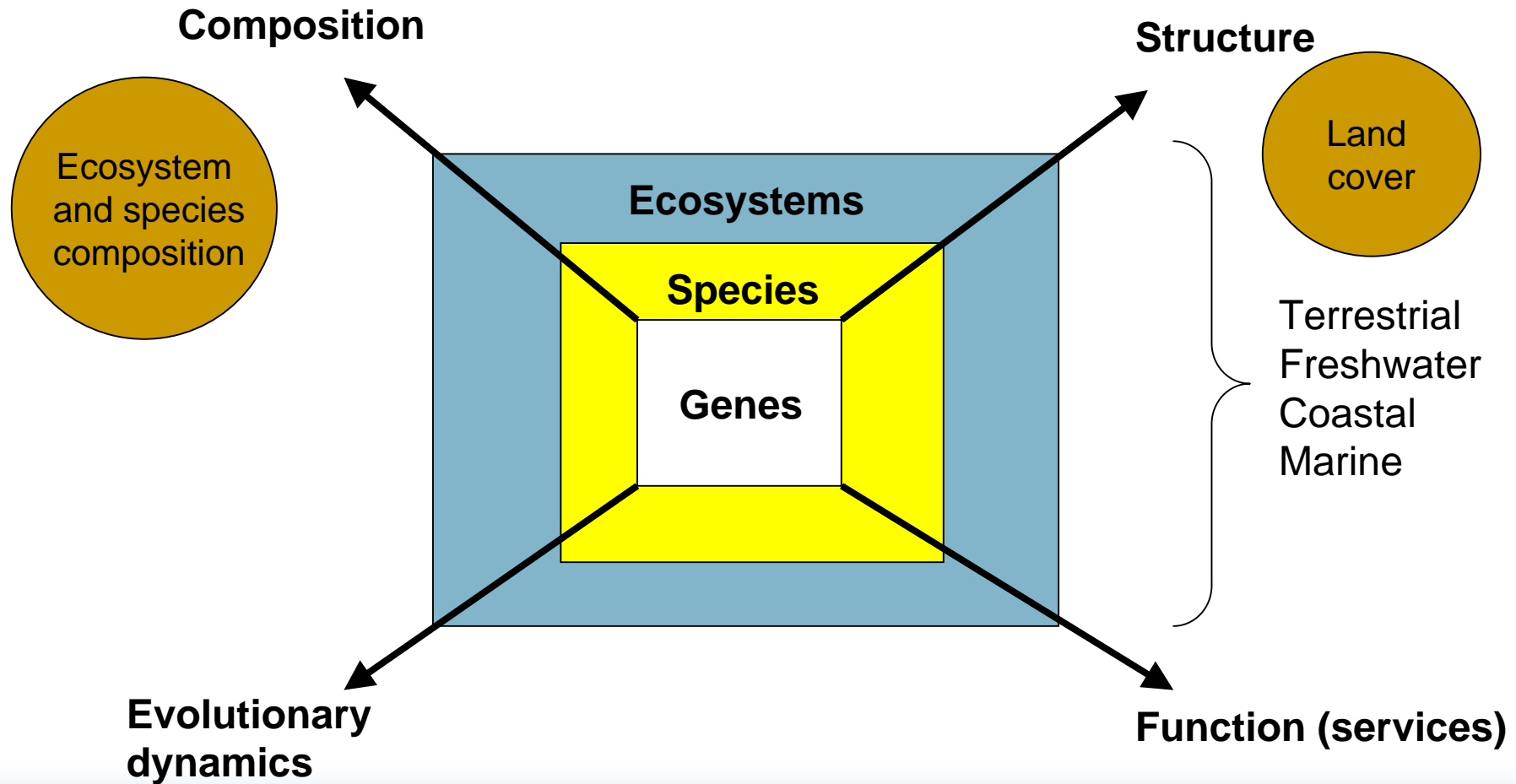


Good news: GEO BON launched

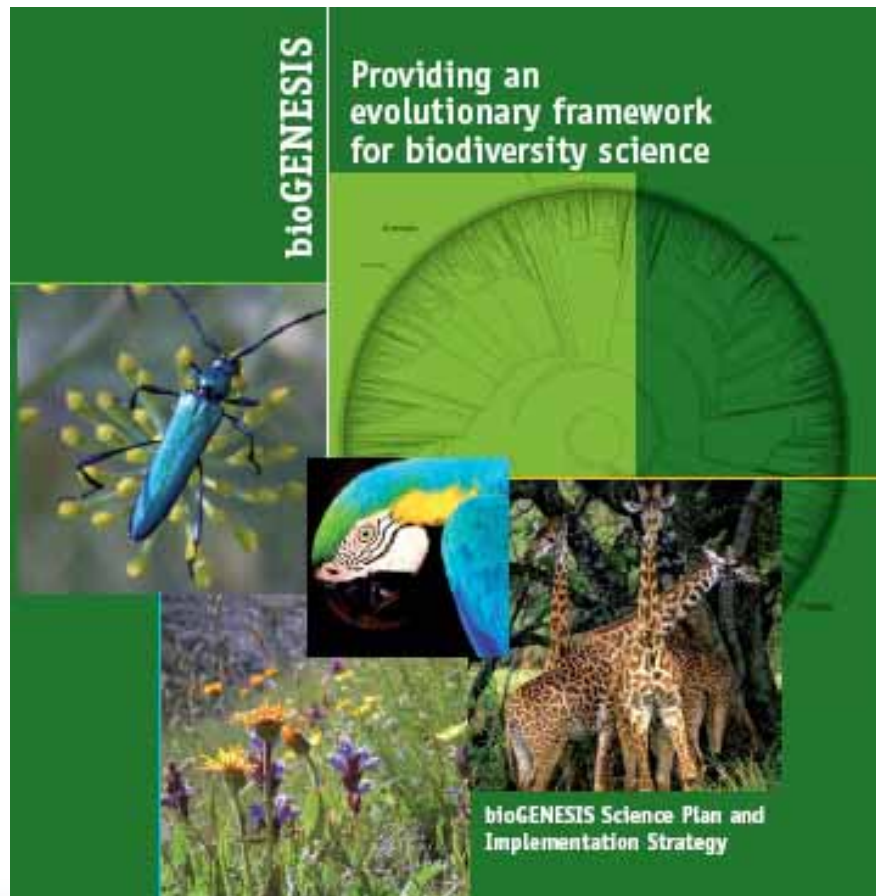


Scholes, R. J. et al. 2008. Science 321: 1044-1045.

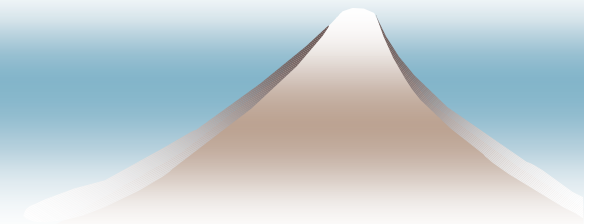
The concept of GEO BON



bioGENESIS Science Plan

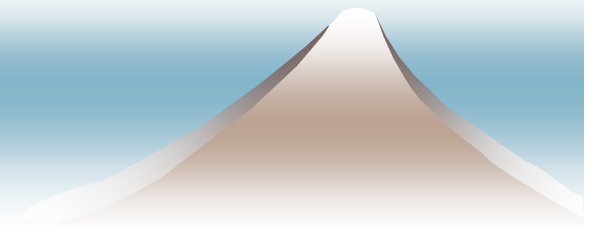


- ◆ **New strategies and tools for documenting biodiversity**
- ◆ **The causes and consequences of diversification**
- ◆ **Evolution, diversity and human well being**



bioGENESIS Science Plan

- ◆ **Focus 1. New strategies and tools for documenting biodiversity**
 - Task 1. Discovering the unknown
 - Task 2. Capturing biodiversity information
 - Task 3. Developing phyloinformatics
- ◆ **Focus 2. The causes and consequences of diversification**
 - Task 1. Drivers of evolutionary change in diversity
 - Task 2. The evolutionary history of biotic assembly
 - Task 3. Evolutionary factors in shaping spatial patterns of biodiversity
 - Task 4. Evolution of functional traits and its ecological consequences
 - Task 5. Eco-evolutionary dynamics
- ◆ **Focus 3. Evolution, diversity and human well being**
 - Task 1. Evolutionary ecosystem management
 - Task 2. Global climatic change
 - Task 3. Combating disease
 - Task 4. Evolutionary conservation
 - Task 5. Evolutionary opportunities



CBD/COP10 and 2010 Target



地球のいのち、つないでいこう

生物多様性

生物多様性条約第10回締約国会議が
2010年10月18日から開催されます

CBD/COP10 愛知・名古屋

開催まであと

620日

2010 BIODIVERSITY TARGET

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Assessing Progress

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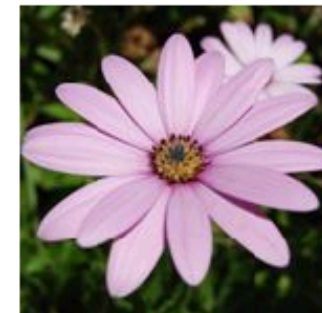
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Nagoya Roadmap: CBD charts the way to COP10

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20 November 2008, Montreal (Canada). How to celebrate the International Year of Biodiversity? What are the key formal negotiation events that the Secretariat of the Convention on Biological Diversity has identified to mark the way ahead from now to the end of 2010? How can we draw the maximum attention of the international community on the 2010 biodiversity target? The Nagoya Roadmap tentatively lists all formal events in which governments and observers to the CBD will engage in the next 700 days to maximize public awareness of the 2010 biodiversity target.



Urgent needs: Harnessing the synergies of an integrated system

