



**DAB: Disaster and Biodiversity International Symposium 2014**  
災害と生物多様性国際シンポジウム 2014

日程: 2014年9月6日から9日

場所: Tohoku University (Katahira Campus), Sendai, Japan

at Lecture Room, Graduate School of Life Science Project Building (D04), 1<sup>st</sup> Floor

東北大学片平キャンパス 生命科学研究科プロジェクト棟 1階講義室

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<http://www.tohoku.ac.jp/japanese/profile/campus/01/katahira/index.html>

使用言語: 英語 (通訳はありません)

参加申し込み: [chipmunk@h5.dion.ne.jp](mailto:chipmunk@h5.dion.ne.jp) または Fax 075-551-3936 (川道)まで

要申込。どなたでもお申し込みいただけます。参加費不要。

お申し込み締め切り: 9月5日12:00まで

お申し込みの際、お名前、連絡先を明記し、何日に参加されるかご記入ください。

また、9日のバスでの現地研修はお申し込み先着15名で締め切らせていただきます (参加費不要)。9日の詳細は後日お知らせいたします。

主催: International Union of Biological Science (IUBS) Committee,  
Biodiversity Network Japan (BDNJ)

後援: IUCN (International Union of Conservation of Nature)  
JABG (Japan Association of Botanical Gardens)  
CEATU (Center for Ecological Adaptability, Tohoku University)

協力: Ministry of the Environment  
IUBS Committee of Science Council of Japan

このシンポジウムは平成26年度独立行政法人環境再生保全機構地球環境基金の助成とIUBSの支援を受けて開催されます。

The Great East Japan Earthquake that occurred on 11 March, 2011 followed by the collapse of the Fukushima Nuclear Power Plant not only destroyed local human life and properties, but also seriously damaged biodiversity and primary industry of the area. Furthermore, many local museums and biological specimens were also lost or damaged. The local biodiversity and biological records are a part of global biological resources that insure future sustainability, and best be inherited to the next generation as good as possible. Japan has paid large attention to biodiversity, e.g., renewing four times the National Biodiversity Strategy since 1995. However, the 3.11 disaster clarified the lack of national academic and social systems that could continuously monitor local biodiversity and biological information to provide necessary data for

urgent rescue activities of various aspects and fields. It is also an urgent need to establish a protocol for precautionary measures in case of future disasters. Based on the experience in Japan the DAB project aims to accumulate similar problems worldwide in order to present a standard measures and policy from various aspects for minimizing disaster influences.

**Program** (一部変更の可能性有り)

**(Sept. 6) General workshop**

- 11:00-12:00 Registration
- 12:00-13:00 Lunch (Registration continues)
- 13:00-13:05 Opening greetings: Prof. Hiroyuki Takeda, University of Tokyo; IUBS Secretary General; Chair of IUBS Committee, SCJ
- 13:05-13:10 Greetings: Dr. Kunio Iwatsuki, BDNJ Representative
- 13:10-13:30 Purpose and scope of DAB project: Prof. Harufumi Nishida; Chuo University, IUBS DAB Leader, BDNJ Secretary General
- 13:30-13:45 Addressing the workshop: Prof. Jun Yokoyama, Yamagata University
- 13:45-14:30 WS1 : Disasters influence to biodiversity: Prof. Jun Yokoyama, Yamagata University
- 14:30-15:15 WS2 : The importance of natural history collections and disaster preparedness and response for museums: Dr. Mahoro Suzuki, Iwate Prefectural Museum, and Dr. Makoto Manabe, National Museum of Nature and Science
- "Salvage and restoration of natural history collections damaged by tsunami in Japan 2011"
- (15:15-16:00 Break)
- 16:00-17:00 General Discussion\*
- \*WS3 : Biodiversity-harmonious disaster recovery process: Dr. Satoquo Seino, Kyushu University. Members of WS3 will visit field in Sendai coast in the morning and in the afternoon on 6<sup>th</sup>

**(Sept. 7) Symposium "Disaster and Biodiversity"**

- 08:30- Audience registration
- 09:00-09:05 Welcome speech Akiko Domoto (Member of BDNJ)
- 09:05-09:10 Welcome speech Toru Nakashizuka (Tohoku University)
- 09:10-09:15 Welcome speech Naoki Nakayama (Ministry of Environment)

09:15-09:30 Opening address Harufumi Nishida (IUBS DAB Leader)  
09:30-09:45 Aims of the Symposium Jun Yokoyama (Yamagata University)  
(09:45-10:00 Break)

**Disasters influence to biodiversity (WS 1): Chaired by Jun Yokoyama**

10:00-10:30 Steven Wagstaff (New Zealand: Landcare Research): Impacts of natural disaster on biodiversity in New Zealand  
10:30-11:00 Guan Kaiyun (China: Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences): "Disasters and biodiversity in China"  
11:00-11:30 Patricio Lopez (Chile: Department of Botany, University of Concepción): "Natural disaster in Chile, effects on Chilean biodiversity"  
11:30-12:00 Discussion 1

(12:00-13:00 Lunch)

**The importance of natural historical records and collection preservation (WS2):**

**Chaired by Masahiro Ôhara**

13:00-13:30 Masahiro Ôhara, Naoki Inari (Japan: Hokkaido University) & Norio Kobayashi (Japan: Saitama Prefectural University): "Importance of museum specimen collections and monitoring of local biodiversity"  
13:30-14:00 Chris Collins and Clare Valentine (UK: Natural History Museum): "Building a Disaster Recovery Team – What happens when the lights go out?"  
14:00-14:30 Paul Callomon (USA: Academy of Natural Sciences of Drexel University) and Catharine Hawks (USA: National Museum of Natural History, Smithsonian Institution): "Why we keep these things: specimen data and meaning"

(14:30-14:45 Break)

**Biodiversity-harmonious disaster recovery process (WS3):**

**Chaired by Satoquo Seino**

14:45-15:00 Naoya Furuta (Japan: IUCN): "Setting the scene: global policy trend on Eco-DRR"  
15:00-15:30 Ho Dac Thai Hoang (Vietnam: Hue University of Agriculture and Forestry): "Sand dunes, the natural sea wall – the Eco-DRR in Central Coast region of Vietnam"  
15:30-16:00 Kateryna Wowk (USA: NOAA): "Enhancing Disaster Resilience by Valuing Nature's Defenses"

- 16:00-16:15 Satoquo Seino (Japan: Kyushu University): "Huge Sea Wall Construction after the Great East Japan Earthquake and Tsunami - Conflicts and Lessons Learned"
- 16:15-16:45 Discussion 2

### **(Sept. 8) Workshops and General Discussion**

- 09:00- Registration
- 09:30-12:00 Parallel workshops

#### **WS 1 Disasters influence to biodiversity**

**Chaired by Jun Yokoyama and Steven Wagstaff**

Speakers:

- Dedy Darnaedi (Indonesia: Indonesian Institute of Sciences): "The Aftermath of Disaster in Ring of Fire Indonesia"
- Osamu Miura (Japan: Kochi University), Gen Kanaya, Shizuko Nakai, Wataru Makino and Jotaro Urabe: "Ecological and genetic monitoring of the Asian mud snail, *Batillaria attramentaria*, after the 2011 tsunami"
- Gen Kanaya (Japan: National Institute of Environmental Studies), Takao Suzuki, Waka Sato-Okoshi and Eisuke Kikuchi: "Ecological consequences of the tsunami disaster in a shallow brackish lagoon (Gamo Lagoon) in Sendai Bay, Japan"
- Srikantha Herath and Ngoc Mai Kim (United Nations University): "Ecosystems services for disaster risk reduction"

Continues to Discussion

#### **WS2 Establishment of networks among museums and experts for collection preservation in disasters**

**Chaired by Masahiro Ôhara**

Speakers:

- Mariko Kageyama (USA: Independent Museum Consultant): "Disaster preparedness and response: Best practices, training, and networking to protect natural heritage collections in North America"
- Makoto Manabe (Japan: National Museum of Nature and Science) and Martin Janal (USA: formerly American Museum of Natural History): "Importance of local museums and of their networks for sustainability"
- Daisuke Sakuma (Japan: Osaka Museum of Natural History): "What has to be done before the next disaster? – Biodiversity Heritage in

Museums needs multi-core network, social supports and legitimate frameworks"

Continues to Discussion

### **WS3 Biodiversity-harmonious disaster recovery process**

**Chaired by Satoquo Seino**

Speakers:

- Jun Nishihiro (Japan: Toho University): "Vegetation heterogeneity was increased by a tsunami but decreased by reconstruction works: a case study in a coastal forest near Sendai city"
- Naoki Nakayama (Japan: Ministry of the Environment): "Policy development on Eco-DRR in Japan after the GEJE"
- Hajime CHIBA (Japan:Tohoku Gakuin University) : " Folklore of Personification and Gift for "Stay with The Ocean": focusing on the case of Maehama, Motoyoshicho, Kesenuma City"

Continues to Discussion

(12:00-13:30 Lunch)

13:30-14:30 Parallel discussion at each WS

(14:30-14:45 Break) Room change for joint meeting

14:45-16:45 Workshop report by chairman of each workshop, and general discussion, How to distribute our results

16:45-17:00 Closing address and Excursion guide: Jun Yokoyama

### **(Sept. 9) One-day excursion to Sendai and Fukushima area**

9:30 Departure from Hotel Dormy Inn Sendai

17:00 Arrive at JR Sendai Station and soon to Hotel Dormy Inn Sendai