Achievements of GBIF in Asia

Sheila Vergara, node manager of ASEAN Centre for Biodiversity
Tsuyoshi Hosoya, node manager of Japan, GBIF Asian nodes representative
Yu-Huang Wang, node manager of Taiwan, GBIF Asian nodes representative deputy
Global Biodiversity Information Facility

A connected community
- Building collaborative solutions and resources
- Enabling national and institutional data mobilization
- Promoting cost-effective open access to data

An informatics infrastructure
- Guiding biodiversity data management and publication
- Helping ensure data persistence
- Increasing recognition and visibility for sharing data

A window on biodiversity
- Offering one-stop shop for ‘big data’ on biodiversity
- Creating a virtual natural history museum to support taxonomy
- Enabling access to images, sounds and video of specimens and observations

A tool for science and society
- Supporting national and global information needs
- Enabling applied, policy-relevant research
- Complementing existing investments and initiatives

GBIF brochure, 2016 edition
Participation of GBIF in Asia

• Voting Participant – Republic of Korea (2001)


• Other Associate Participant – Chinese Taipei (2001), ASEAN Centre for Biodiversity (2009), International Centre for Integrated Mountain Development (2009), Chinese Academy of Sciences (2013)
Data sharing and repatriation

Georeferenced data

VIEW RECORDS
All records | In viewable area

ABOUT
This map shows the density of all 624,688,835 georeferenced occurrence records published through the GBIF network.

To explore the records, zoom into the map or click on the links above and add further filters to customize search results.
<table>
<thead>
<tr>
<th>Country</th>
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**Total:**
- **12,148** Occurrence datasets
- **21,021,576** Occurrence records
- **5** checklist datasets
Data papers


Mobilizing Data in Asia through Capacity building on biodiversity informatics

• **BIFA**—the Biodiversity Information Fund for Asia—is the outcome of a contribution from the Ministry of the Environment, Government of Japan, earmarked for activities in Asia.

• Activities supported by BIFA
  • helped establish and strengthen national biodiversity information facilities,
  • expanded the GBIF network in the region and
  • Improved the capacity of Asian researchers and decision-makers to access data required for the management of the region’s biodiversity.
  • Were selected among proposals submitted by members of the network
Strengthening National Biodiversity Information Facilities

Background

- BIFA Funded Project Implemented by Biodiversity Management Bureau (PhilBIF) of DENR
- ASEAN Center for Biodiversity (ACB) as co-implementer of the project
- Belgium Biodiversity Platform facilitated the 1st Batch of the training
- Project duration is from June – December 2016
Objectives:

- facilitate the organization and sharing of available biodiversity data collected and recorded by various organizations in the Philippines;
- align the data formats and mobilize data from surveys conducted by various academic, research and non-government organization to support the science-policy needs of the country;
- enhance the data publishing capacities of BIOWEB partners and BMB Informatics personnel.
Project Implementation

- Two (2) batches of capacity building activities participated by 60 Scientists and IT experts from 20 institutions.
- Training materials, presentations (annex 25) and exercises derived from the GB22 Nodes Training Event in Madagascar was retrofitted to suit the Philippine situation and the needs of the participants.
Project Implementation

- Topics discussed in the training:
  - benefits of data publishing
  - data transformation process
  - mapping different data types
  - Darwin Core Standard
  - Integrated Publishing Toolkit (IPT)
  - publishing various data types to GBIF and
  - data visualization using GBIF available data
- IPT Facility for the training was provided by ACB
- Training included hands-on exercises
**Project Outputs**

- BIOWEB partner institutions were endorsed by Phil BIF as GBIF data publishers:
  - Institute of Biological Sciences, University of the Philippines Los Banos
  - Mindanao State University (Tawi-Tawi)
  - Practical Genomics Laboratory, Technologies for Biodiversity Use and Conservation, Center for Natural Science and Environmental Research, De La Salle University
  - RB Gonzales Museum of Natural History
Project Outputs

- Increase in Philippine biodiversity data published in GBIF (expected to have a continuous rise this year);
- Expected operationalization of the BMB IPT Facility to be used by BIOWEB partners in publishing data to GBIF;
- Willingness of non-BIOWEB partners in joining which would expand the GBIF network
- Project Midterm and Final Report submitted and approved by GBIF
Mentoring conducted last June 20-24, 2016 (1st Batch)
Photos (2\textsuperscript{ND} Batch)

Mentoring conducted last October 10-14, 2016 (2\textsuperscript{nd} Batch)
Expanding the GBIF network in the ASEAN region

Mobilizing Biodiversity Data from ASEAN Protected Areas (GBIF Grant / Biodiversity Information Fund for Asia (BIFA))
Orientation Workshop on Mobilizing Biodiversity Data from ASEAN Protected Areas

OBJECTIVES

- to facilitate the organization of species data from ASEAN Heritage Parks (AHPs) into globally accepted formats
- expose ASEAN Park Managers and staff on the use of camera traps and the processing of information gathered from this method
- orient ASEAN Park Managers and staff on the publication of species information with the use of species encoding and publication tools developed by ACB and GBIF
Orientation Workshop on Mobilizing Biodiversity Data from ASEAN Protected Areas

**EXPECTED OUTCOMES**

- Increased availability of biodiversity information in interoperable databases
- Exposure and awareness on the use/function of camera traps as a helpful tool for acquiring real time biodiversity information and complement transect information
- Convinced and increased willingness of AHP Managers and/or staff to share biodiversity information
- Science informed decision making and policy development promoted at the level of the AHP and the ability to contribute to national and regional conservation efforts
- Project Duration: April – July 2016
Orientation workshop on Mobilizing Biodiversity Data from ASEAN Protected Areas

- **24** AHP Managers/Technical Staff
- **18** AHPs
- **8** AMS
- **4** Partner Experts
- **7** ACB Staff
Data encoding, harvesting, processing & mapping
Camera Trap Deployment at Mt. Makiling Forest Reserve

- Deployed 12 camera traps
- Location details:
  - Latitude: 14.13195
  - Longitude: 121.219553
  - Elevation: 439 masl (SAR DEM)
  - GPS: 370.24 masl
Processing of data from images collected
Hosted resources available through this IPT

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The most recently updated resources are also available as an RSS feed.

Data Publication through GBIF’s Integrated Publishing Toolkit
## Future Needs Identified

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<th>Needs</th>
<th>Database management</th>
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<td><strong>Capacity Building</strong></td>
<td>Camera trap orientation</td>
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<tr>
<td></td>
<td>Mapping</td>
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<td></td>
<td>Database / Technical Officers</td>
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<td>Training for data partners</td>
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<td><strong>Funds</strong></td>
<td>To conduct surveys</td>
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<td>Procurement of equipment</td>
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<td><strong>Commitments</strong></td>
<td>Willingness to share data in open source</td>
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Next Steps Identified

- Increase coverage of training to the rest of the AHPs
- Involve other data partners at the National Level
  - Museums
  - Other departments / ministries
  - LGUs
  - NGOs (local and International)
- Potential Outputs / Products
  - Management plan
  - Increase in tourism / park visitors
  - GIS data
  - Improve education on Parks / PAs
  - Improve conservation
Capacity building on biodiversity informatics

Training Workshops

2012/06/25-27

2016/09/07-10

Improving the capacity of Asian researchers and decision-makers to access data required for the management of the region’s biodiversity
2016 GBIF BIFA Biodiversity Informatics Training Workshop

Programme

07 September 2016 (Wednesday) 1st day

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<td>09:00 – 09:30</td>
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<td></td>
<td>Wen-Hsiung Li</td>
<td>Opening address (Director, International Cooperation and Science Education)</td>
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<td>10:10 – 11:10</td>
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<td>11:10 – 12:30</td>
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Introduction to biodiversity informatics

Time standardization

12:00 – 13:40 Tsuyoshi Koyama

1.3 Darwin Core Terms [open] [video]

Hands-on: Finding suitable DuC terms for the dataset [data] [video]

Coffee Break

15:00 – 15:40 Tsuyoshi Koyama

1.2 Data standardization [data] [video]

Summary of participants’ discussions and suggest better way

15:40 – 16:10 Tsuyoshi Koyama

Hand-on: Merging example datasets into one dataset following standards

Discussion on checking errors in example datasets [data] [video]

16:30 – 16:45 Tsuyoshi Koyama

Wrapping up

Comments

You do not have permission to add comments.
### Participants of the 2016 GBIF BIFA Biodiversity Informatics Training Workshop

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**Total**: 41
Regional collaboration

GBIF Asia Regional Nodes Meetings
1. 2009.9 Thailand
2. 2010.11 India
3. 2012.3 Japan (Tokyo)
4. 2012.6 Taiwan (4th Asian Node Manager Meeting in Taipei)
   - 2012-2016 Regional Strategies composed
   - Regional representative: Sheila Vergara (ACB)
   - Regional deputy: Nakul Chettri (ICIMOD)
5. 2014.7 Japan (Tsukuba)
   - Regional representative: Tsuyoshi Hosoya (JBIF)
   - Regional deputy: Yu-Huang Wang (TaiBIF)
6. 2015.6 Taiwan (6th Asian Node Manager Meeting in Nantou, Taiwan)
   - Biodiversity Information Fund for Asia projects proposed
7. 2016.6 Philippines (Tagaytay)
   - 2017-2021 Regional Strategies composed
   - Regional representative: Tsuyoshi Hosoya (JBIF)
   - Regional deputy: Yu-Huang Wang (TaiBIF)
Regional collaboration

• The 8th Asian nodes meeting
  • will take place in June 2017 in Vietnam
  • will be expanded from the standard

• For expanding regional collaboration and participation, this meeting will invite:
  • Selected Asian non-Participant country representatives
  • External networks – IUCN Asia, AP-BON, ILTER, IPBES Asia/Pacific, ABCD-Net
Thank You

GBIF - ASIA
Global Biodiversity Information Facility