



Biodiversity Data Mobilization Workshop

March 14–16, 2019

The Hotel & Convention Place, 68 Sct. Tuason cor. Sct. Madrinan, Brgy.
South Triangle, Quezon City

Programme

Version 4, 9 March 2019



Introduction

This workshop aims to enhance the capacity of local institutions to effectively mobilize biodiversity data in accordance to the standards of the Global Biodiversity Information Facility (GBIF). It will comprise of 7 modules, focusing mainly on data mobilization – data capture, data cleaning and quality checking, data standardization, and online publishing. Through this workshop, we hope to contribute to the growing amount of high-quality biodiversity data on Philippine biodiversity and encourage local institutions to mobilize their biodiversity data through the GBIF network.

This workshop is funded by the Ministry for the Environment of the Government of Japan through the Biodiversity Information Fund for Asia (BIFA) programme of the Global Biodiversity Information Facility and is under the *BIFA3_26: Alien Amphibians and Reptiles, a Threat to Philippine Biosecurity: Developing a National Invasive Alien Amphibian and Reptiles Inventory and Occurrence Database and an Observation and Monitoring System* project. It is organized by HerpWatch Pilipinas, Inc., in collaboration with the Biodiversity Management Bureau (BMB) of the Department of Environment and Natural Resources (DENR), the ASEAN Centre for Biodiversity (ACB), and the University of Santo Tomas (UST) – Biodiversity, Ecology, Systematics, and Taxonomy (BEST) group.

Participants of the workshop include select representatives from the Zoology Division and Botany Division of the Philippine National Museum of Natural History, UST-BEST, UST-Herbarium, Biodiversity Research Laboratory of the University of the Philippines – Diliman, the Museum of Natural History of the University of the Philippines – Los Baños, Rodolfo B. Gonzales Museum of Natural History and Department of Biological Sciences of the Silliman University, the Natural Science Museum of the Mindanao State University – Iligan Institute of Technology, and the Department of Biological Sciences of the Rizal Technological University.

Workshop Outline:

Module 1: Introduction to Biodiversity Informatics | *This module aims to teach the basic concepts of biodiversity informatics and to help participants familiarize with the basic characteristics of biodiversity datasets.*

Module 2: Introduction to the Global Biodiversity Information Facility and similar local initiatives | *This module aims to introduce the complexities of the 21st century biodiversity informatics initiatives, with special focus on GBIF.*

Module 3: Biodiversity data capture | *This module aims to introduce the different biodiversity data types and the best practices for data capture.*

Module 4: Data cleaning and standardization | *This module aims to introduce the basic tools and concepts used for data validation, cleaning, and how data can be standardized for publishing as Darwin Core.*

Module 5: Data mobilization and publishing using IPT | *This module aims to introduce the process of making biodiversity data freely available online using the GBIF Integrated Publishing Toolkit.*

Module 6: Practical exercise | *This module aims to test the attained knowledge and skill sets of participants through 2 Use Cases.*

Module 7: Data access via GBIF.org | *This module aims to teach the procedures in accessing biodiversity data in the GBIF website.*



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Learning Outcomes:

- Capacitate local institutions in capture and publishing of biodiversity data.
- Use software tools designed to facilitate biodiversity data mobilization.
- Apply data cleaning protocols to evaluate the fitness-for-use of a biodiversity dataset.
- Use software tools designed for (biodiversity) data cleaning.
- Use the GBIF IPT to publish biodiversity datasets using the appropriate extensions.

Workshop Schedule

Day 1 | March 14 |

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| 1200–1300H | Registration and Lunch break |
| 1300–1330H | Session 1 Welcome and introduction to the workshop |
| 1330–1400H | Module 1 Session 2 Introduction to Biodiversity Informatics |
| 1400–1430H | Module 2 Session 3 Introduction to the Global Biodiversity Information Facility |
| 1430–1500H | Session 4 GBIF Philippines and DENR-BMB initiatives for Biodiversity Data Mobilization |
| 1500–1515H | Coffee Break |
| 1515–1600H | Session 5 “Biodiversity data”, its origins and types (30 min.) <i>The origin and types of biodiversity data will be introduced.</i> |
| 1600–1630H | Session 6 Why publish data? Biodiversity data mobilization and data papers |
| 1630–1700H | Module 3 Biodiversity data capture Session 7 Biodiversity data terminologies, standards, and the Darwin Core (30 min.) <i>The concepts of standards, in particular, the Darwin Core standard and its components, which will be used throughout the remainder of the course, will be introduced.</i> |
| 1700–1730H | Session 8 Data Quality (30 min.) During this session we will learn key concepts of data quality |
| 1730–1830H | Dinner Break |

Day 2 | March 15

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| 0830–0900H | Registration |
| 0900–1000 H | Session 9 Data capture, processing and quality (60 min.) <i>Theoretical and practical session focused on best practices and data quality principles in the context of data capture. Includes a short presentation on data quality and coherence (especially on subjects such as georeferencing, dates, names and taxa cross-checking), followed by a practical exercise using simple spreadsheets.</i> <i>Introduction to Species Encoder of the ASEAN Centre for Biodiversity</i> <i>Introduction to use case 1: A Data Mobilization Project in a Regional Herbarium © GBIF</i> |
| 1000–1100H | Module 4 Data cleaning and standardization Session 10 Foundations: Basic concepts of Data Cleaning (60 min.) <i>Main concepts, related tools, and best practices for data cleaning and standardization will be introduced, followed by a practical exercise with examples of technical and consistency validation checks.</i> <i>Introduction to use case 1: A Data Mobilization Project in a Regional Herbarium © GBIF</i> |
| 1100–1130H | Session 11 OpenRefine (90 min.) <i>Introduction to OpenRefine -- an easy tool to standardize and improve the quality of datasets -- followed by a practical exercise using the default features, existing web services and regular expressions.</i> <i>Introduction to use case 1: A Data Mobilization Project in a Regional Herbarium © GBIF</i> |
| 1130–1230H | Lunch break |
| 1230–1345H | Session 12 Other data management tools (75 min.) <i>Introduction to other tools used to validate and clean datasets in three main categories: nomenclatural, format, and geographical.</i> <i>Introduction to use case 1: A Data Mobilization Project in a Regional Herbarium © GBIF</i> |



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- 1345–1400H Coffee Break
1400–1600H **Module 5 | Data mobilization and publishing using IPT**
Session 13 | Data publishing using IPT (120 min.)
Presentation and discussion on subjects such as licenses, metadata, mandatory fields, hosting of data sets of different institutions on the same IPT installation, etc. Presentation and demonstration covering the basics of publishing using the IPT tool (principles, user interface, workflow, metadata, dataset visibility, etc). Additional demonstration and discussion covering IPT features and publication of a complex, sample-based dataset where emphasis will be put on the use of extensions and the core/extension relationship. (Presentation, demonstration, and exercise)
Introduction to use case 1: A Data Mobilization Project in a Regional Herbarium © GBIF
- 1600:1700H **Session 14 | Preparing data paper manuscripts for submission (60 min.)**
Introduction to use case 1: A Data Mobilization Project in a Regional Herbarium © GBIF
- 1700–1800H Dinner

Day 3 | March 16

- 0830–0900H Registration
0900–945 **Module 6 | Session 14 | Data access via GBIF.org (45min)**
Introduce the GBIF website, and how to navigate and access the database.
Mr. Arman N. Pili
- 0945–1030H **Module 7 | Session 15 | Practical exercise**
Introduction to use case 2, use case 3, use case 4 © GBIF, or institution's dataset
- 1030–1045H Coffee break
1045–1200H **Module 7 | Session 15 | Practical exercise**
1200–1300H Lunch break
1300–1500H **Module 7 | Session 15 | Practical exercise**
1500–1515H Coffee break
1515–1630H **Module 7 | Session 15 | Practical exercise**
1630–1700H Onsite conclusion, End of the training event

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