



WORKSHOP REPORT ON BIODIVERSITY DATA MOBILIZATION AND ITS USE IN DECISION-MAKING AND RESEARCH



Democratic Republic of the Congo, Kisangani: 16-19 October 2018



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1. Preamble

This report covers the event of a training workshop on data mobilization and its use for decision-making and research, organized by the Centre de Surveillance de la Biodiversité of the University of Kisangani from 16 to 19 October 2018. These activities have benefited from the collaboration of GBIF-BID and funded by the European Union.

The training was intended to provide biologists with biodiversity data with the skills to prepare the data for uploading to GBIF.

A total of thirty (34) participants had actively participated in the training, including Professors from the Faculty of Science of the University of Kisangani, the Museum of the Faculty of Science, researchers from Lwiro, Bukavu and Uvira (DRC), the National Institute of Nature Conservation, the Bili-Uèle hunting area, the Kokolopori Bonobos Nature Reserve and independent researchers including doctoral candidates, masters and students. All were from different fields (zoologists, botanists, microbiologists). The training was given in the meeting room of the Centre de Surveillance de la Biodiversité, Faculty of Science, and the University of Kisangani. Professor Dr. EWANGO E.N. Corneille and Research Assistant Franck MASUDI MUENYE MALI organized and facilitated the GBIF-BID collaborative training.

2. Course content and training materials

The 4-day training had been completed. All courses taught were based on the December and April training sessions in Cape Town, South Africa.

3. General objective of the training



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This workshop aimed to contribute to learning from stakeholders (data managers) while demonstrating how mobilized primary biodiversity data can be used in the development of information products that inform national decision-making processes. In addition, this exchange workshop had also provided a framework for capitalization, systematization and innovative sharing in the promotion, management, mobilization and use of data for decision-making.

4. Specific objectives of the training

In accordance with BID's objectives, this training workshop aimed to:

- Mobilize biodiversity data on DRC's protected areas, threatened species and invasive alien species,
- Use or expand the use of good practices in the digitization of natural science collections and mobilize other biodiversity data in the DRC,
- Apply the use of biodiversity data to support decision-making and research,
- Apply an ecological niche model to determine the distribution of a species
- Use computer tools to manage ecological niche models (MAXENT),
- Apply a framework for assessing the conservation status of species,
- Assess the adequacy of the data to be used in the red list process,
- Develop sustainable national, regional or thematic networks to support data sharing and reuse.

5. Workshop prerequisites (participants and presenters)



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To make the most of the activities of this workshop, participants should have the following skills and knowledge:

- Have a minimum knowledge of computer science on biodiversity, ecology or conservation,
- Some knowledge of computerized geographic and statistical analysis tools, such as GIS or R,
- Have an understanding of national and/or international biodiversity policies, such as the Convention on Biological Diversity, sustainable development objectives, CITES,
- Be able to transfer the knowledge acquired during the training to other partners using the data.

6. Workshop process

The workshop was held at the Biodiversity Monitoring Centre of the University of Kisangani. It had lasted 4 days. However, the organization had the round trip of the participants who came to Kisangani for accommodation and catering for all participants. A total of 34 participants had benefited from the training.

7. Results :

At the end of the workshop, we reached the following conclusions:

- All workshop participants agreed to create the Species Survival Group following the study group and publish the data in the GBIF platform of the different zoological and botanical groups. Thus, for amphibians, we created ASHERCO (Association des Herpétologistes Congolais),



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- Develop a strategy for integrating biodiversity data that takes into account the national context,
- Identify political entry points and categorize key stakeholders according to their respective influences,
- Develop a communication strategy and convincing arguments to integrate biodiversity into decision-making processes,

8. Challenges to be addressed

Next steps:

- Most of the scientists who were not invited expressed a desire for an individual meeting. Interaction to help them acquire the skills taught during the training. This is an interesting activity to do.

Table 1. WORKSHOP PROGRAM

Date	Horaire	Activités
Mardi, le 16 octobre 2018		Modérateur : Pr Dr GAMBALEMOKE M. Sylvestre
	8h 30'-08h 45'	Accueil des et installation des participants
	8h 45'-9h 00'	Mot de bienvenu par le Directeur du Centre de Surveillance de la Biodiversité
	9h 00'-9h 10'	Mot de circonstance du Directeur de l'Institut Congolais pour la Conservation de la Nature (ICCN)
	9h 10'-9h 20'	Mot de circonstance du Secrétaire Général Académique de l'Université de Kisangani
	9h 20'-9h 30'	Photos de famille
	9h 30-10h 00	Pause-café
10h 00'-10h-15'	Présentation des participants	





		Choix d'un président et d'un rapporteur (John NGABU) Présentation de l'agenda de l'atelier
	10h 15'-11h 00'	Présentation 1. Des données pour décider : La bio-informatique et la présentation de GBIF (Ass. Franck MASUDI)
	11h 00'-11h 45'	Présentation 2. Implication des parties prenantes : identification et priorisation (Ass. Franck MASUDI)
	11h 45'-12h 45'	Questions-débats
	12h 45'-13h 45'	Pause-déjeuner
	14h 15'-15h 45'	Présentation 4. Standards des données de biodiversité (Pr Dr EWANGO)
	14h 45'-16h 15'	Présentation 5. Planification de projet de numérisation (Pr Dr EWANGO)
	1h15'-17h00'	Questions-débats
Mercredi, le 17 octobre 2018	8h30'-8h00'	Modérateur : Pr Dr GEMBU TUNGALUNA Guy Crispin
	9h00'-9h-45'	Pause-café
	9h45'-10h-30'	Présentation 6. Introduction aux données de la biodiversité accessible via GBIF (Franck MASUDI)
		Présentation 7. Introduction au SMART (Directeur de la Réserve de Chasse de Rubi-Tele/Sukisa)



	10h30'-11h-15'	Questions-débats
	12h00'-13h-15'	Pause-déjeuner
	13h30'-14h15'	Présentation 8. Aperçu général sur l'herpétologie en RDC (CHIFUNDERA)
	14h15'-15h00'	Présentation 9. Réseau des herpétologistes Congolais (CHIFUNDERA)
	15h00-16h30'	Présentation 3. Collecte des données biologiques par les inventaires moins invasives (Pr Dr GEMBU)
	16h 30'-17h 00'	Questions-débats
Jeudi, le 18 octobre 2018		Modérateur : Dr MUBENGA KANKONDA Onésime
	8h30'-9h00'	Pause-café
	9h00'-9h-45'	Présentation 9. Nettoyage des données par la visualisation (Ass. Franck MASUDI)
	9h45'-10h-30'	Présentation 10. Origines des données exemples et illustrations (Pr Dr EWANGO)
	10h30'-11h-15'	Présentation 11. NBA : Evaluation nationale de la biodiversité (Ass. Franck MASUDI)
	11h-15'-12h00'	





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		Présentation 12. Rappels sur la qualité des données (Pr Dr EWANGO)
	12h00'-13h-15'	Pause-déjeuner
	13h30'-14h15'	Présentation 13. Introduction au SMART (Directeur du Domaine de Chasse de Rubi-Tele)
	14h15'-15h00'	Présentation 14. Interprétation et post traitement des modèles de niche (Ass. Franck MASUDI)
	15h00'-16h30'	Présentation 15. Nettoyages des données (Pr Dr EWANGO)
	16h30'-17h00'	Questions-débats
Vendredi, le 19 octobre 2018		Modératrice : Pr Dr KASWERA KYAMAKYA Consolate
	8h00'-8h25'	Pause-café
	8h30'-9h00'	Présentation 16. Evaluer le statut de conservation d'une espèce (Ass. Franck MASUDI)
	9h00'-9h30'	Présentation 17. Les catégories de la liste rouge de l'UICN (Ass. Franck MASUDI)
	9h30'-10h00'	Présentation 18. Les critères de la liste rouge : critère A (Ass. Franck MASUDI)



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	10h00'-10h30'	Présentation 19. Les critères de la liste rouge : critères C, D et E (Ass. Franck MASUDI)
	10h30'-10h55'	Pause-café
	11h00'-11h'30'	Présentation 20. Plan de communication (Ass. Franck MASUDI)
	11h30'-12h00'	Présentation 21. Autres outils de gestion des données (Pr Dr EWANGO)
	12h15'-13h45'	Pause-déjeuner
	13h45'-14h15'	Présentation 22. Publications des données : concepts et introduction à IPT (Pr Dr EWANGO)
	14h15'-14h-45'	Présentation 23. Départements du CSB et la mobilisation des données sur la biodiversité et son utilisation à la prise de décision (P.O. DUDU AKAIBE)
	14h-45'-15h15'	Présentation 24. Présentation du CSB (Pr Dr GAMBALEMOKE Sylvestre)
15h15'-16h45'	Plénière- discussion-débats, propositions et recommandations	
16h 45'-17h00' : Mot de clôture par le Directeur du CSB		
FIN DES ACTIVITES		

9. Recommendations for action

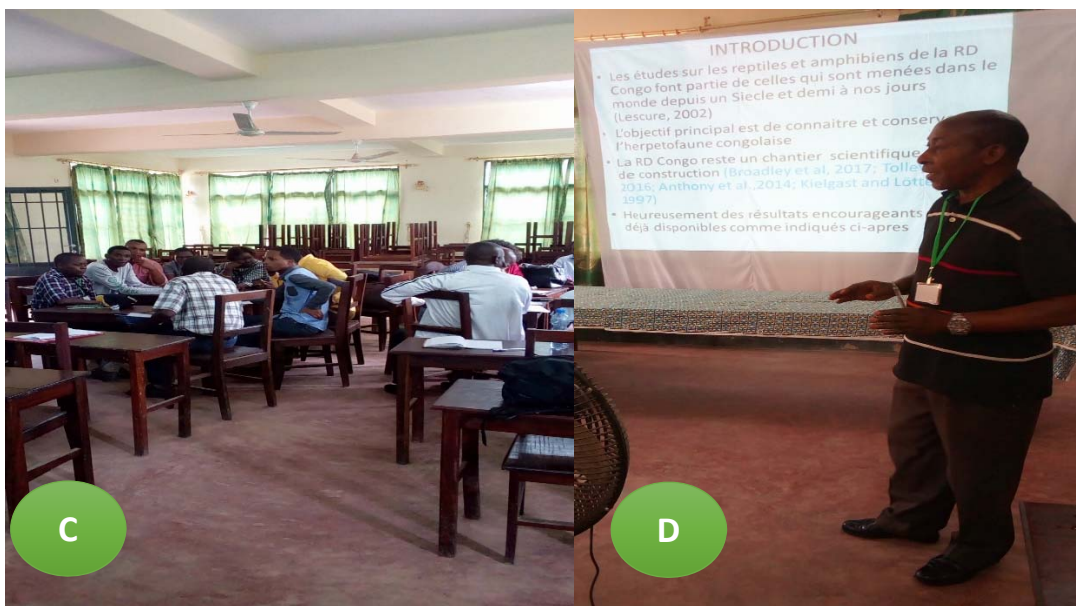


- Reactivate CSB antennas in the provinces. To do this, they must organize themselves. Indeed, the role of mentors is to boost junior scientists to develop and benefit from this type of training that GBIF-BID has organized, as they also mobilize data,
- Research at the CSB is carried out in a methodological manner that is based on the scientific foundations previously established. Through this opportunity, the CSB must centralize its data, create the network of researchers who will be shared through the GBIF-BID platform,
- We all agree with GBIF-BID in its approach to publishing data around the world. However, there is a need for such ongoing training on research tools. The potential is enormous but the internet connection is poor and for this, it is necessary to improve the speed during a GBIF-BID training) and include the whole campus,
- The scope of the research is enormous. Indeed, scientific capacity building must be on all levels including the modern scientific dimension. This is to avoid errors by a researcher during a modeling for example by (MaxEnt, GeoCAT, IPT-GBIF, Drones, Etc. Therefore, it would be desirable for donors to also fund data collection, at which point he will have no doubt about the use of the data
- Inter-institutional collaboration is important (strengthening collaboration) at several levels (national, provincial and local),
- Produce documents for extension documents and raise awareness of the use of data and its use for decision-making.

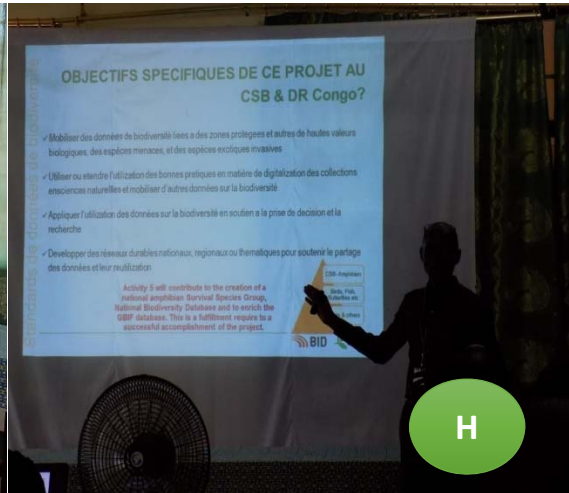




Figure 1. Various activities related to the training of data mobilization, its use for decision-making in the Centre's meeting room in Kisangani (DRC)



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Figures A: Opening remarks by the Director of the Biodiversity Monitoring Centre; B: Group work for communication; C: Group training; D: Chifundera presentation on the state of Congolese herpetology; E & H: Professor Ewango's presentations on the amphibians of the DRC; G: Reporting team and I: BID team and partner institutions

Acknowledgement

We sincerely thank the very active participation of the following Professors in the workshop:

- Dr DUDU AKAIBE, Ordinary Professor at the Faculty of Science of the University of Kisangani and Director of the Centre de Surveillance de la Biodiversité of the University of Kisangani,
- Dr UPOKI AGENONG'A, Ordinary Professor at the Faculty of Science of the University of Kisangani and Deputy Director of the Centre de Surveillance de la Biodiversité of the University of Kisangani. Director General of ISTM-Kisangani,
- Dr GEMBU TUNGALUNA, Professor at the Faculty of Science of the University of Kisangani and Head of the Department of Biodiversity and Ecology of Land Resources at the Centre de Surveillance de la Biodiversité of the University of Kisangani . Rector at the University of North Congo, Bas-Uélé, DRC,
- Dr KASWERA KYAMAKYA Consolate, Associate Professor at the Faculty of Science of the University of Kisangani and Head of the Communication and Information Management Department at the Centre de Surveillance de la Biodiversité of the University of Kisangani. Director of the School of Hotels and Tourism at the University of Kisangani,
- Dr GAMABALEMOKE MBALITINI Sylvestre, Professor at the Faculty of Science of the University of Kisangani and Head of the Department of Environmental Education at the Centre de Surveillance de la Biodiversité of the University of Kisangani. General Director of ISM-Isiro,



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- Dr DANADU MIZANI Célestin, Associate Professor at the Faculty of Sciences of the University of Kisangani and Head of the Department of Biodiversity and Ecology of Aquatic Resources at the Centre de Surveillance de la Biodiversité of the University of Kisangani. Academic Secretary General at the University of North Congo, Bas-Uélé, DRC,
- Dr MUBENGA KANKONDA Onésime, Associate Professor in the Faculty of Renewable Natural Resources Management and Centre de Surveillance de la Biodiversité of the University of Kisangani,
- To the reporting, logistics team, all of us, we say thank you!

Done at Kisangani, 17 November 2018

For BID Project

Franck MASUDI MUENYE MALI

Project lead

For the organization

Dr DUDU AKAIBE

Professeur Ordinaire



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