

Republic of the Philippines
Department of Environment and Natural Resources

BIODIVERSITY MANAGEMENT BUREAU

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APR 2 8 2020

MEMORANDUM

FOR

The Regional Executive Directors

DENR Regions 3, MIMAROPA, and 13

FROM

The Director

In concurrent capacity as Assistant Secretary for Policy,

Planning, and Foreign-Assisted and Special Projects

SUBJECT

REQUEST FOR PARTICIPATION OF SELECTED PROTECTED AREA PERSONNEL TO THE TRAINING OF TRAINORS AND PILOT-TESTING OF THE EARTHRANGER IN SUPPORT TO THE STANDARDIZATION AND ENHANCEMENT OF BIODIVERSITY ASSESSMENT AND MONITORING TOOLS PHASE 2 ON 14-21 MAY 2023 IN THE

PROVINCE OF ZAMBALES

This refers to the ongoing standardization and enhancement of biodiversity assessment and monitoring tools being implemented by the Biodiversity Management Bureau through the Sustainable Interventions for Biodiversity, Oceans and Landscapes (SIBOL) Project. The standardization and enhancement supports the provisions of the Implementing Rules and Regulations of the National Integrated Protected Areas System (NIPAS) Act, as amended, that sound resources assessment shall be used as one of the bases for the review and updating of protected area management plans.

In October to December 2021, the SIBOL Project initiated the standardization of the assessment and monitoring tools used by the BMB and Forest Management Bureau, with the goal of developing an automated and interoperable system to improve the currently used tools. The output will serve as basis for policy recommendation to rationalize the tools used in biodiversity resources assessment and monitoring, prevent duplication of efforts and resources allocation, and aid in protection and law enforcement.

Phase I activities focused on the identification of data points being captured by the various assessment and monitoring systems across thematic areas. For BMB, the assessment and monitoring tools reviewed were the Biodiversity Assessment and Monitoring System, Biodiversity Monitoring System, Illegal Wildlife Trade, Priority Species Monitoring Program, and Asian Waterbird Census. For FMB, the Lawin Forest and Biodiversity Protection System was reviewed. Analysis of the results revealed the similarities and differences of data captured by each assessment and monitoring tool, challenges and gaps in the applicability of the tools in the field, and possible solutions



to address these gaps. Based on the results of the Phase I activities, Phase II will focus on using an automated data capturing tool (EarthRanger) to collect the core datasets common in each existing assessment and monitoring tool, and on field testing the tool in selected pilot sites to further improve its system and utility.

To operationalize the Phase II activities, the BMB and the SIBOL Project intend to conduct a Training of Trainors and Pilot Testing of the automated data capturing tool (EarthRanger) on 14-21 May 2023 in the Province of Zambales. The conduct of the Training will also serve as input to the proposed establishment of the Protected Area Academy which is also being undertaken by the BMB through the SIBOL Project.

In this regard, may we request the participation of the following protected area personnel to the said Training of Trainors:

Region	Protected Area	Participants
	Masinloc and Oyon Bay Protected Landscape	 Protected Area Superintendent or Assistant Protected Area Superintendent 2 Technical Staff with background in geospatial analysis 1 Protected Area Ranger
3	Bataan Natural Park	 Protected Area Superintendent or Assistant Protected Area Superintendent 2 Technical Staff with background in geospatial analysis 1 Protected Area Ranger
	Mt. Mantalingahan Protected Landscape	 Protected Area Superintendent or Assistant Protected Area Superintendent 2 Technical Staff with background in geospatial analysis 1 Protected Area Ranger
MIMAROPA	Puerto Princesa Subterranean River National Park	 Protected Area Superintendent or Assistant Protected Area Superintendent 2 Technical Staff with background in geospatial analysis 1 Protected Area Ranger
13	Siargao Island Protected Landscape	 Protected Area Superintendent or Assistant Protected Area Superintendent 2 Technical Staff with background in geospatial analysis 1 Protected Area Ranger

We will also highly appreciate it if the Regional Executive Director of DENR Region 3 and/or the PENR Officer of Zambales can welcome the participants during the opening program of the Training on 15 May 2023.

The above protected areas, with the exception of Bataan Natural Park, are implementation sites of the SIBOL Project and are expected to continue pilot-testing the automated data capture system as part of project implementation. The conduct of the Training will also serve as input to the proposed establishment of the Protected Area Academy which is also being undertaken by the BMB through the SIBOL Project.

Attached is the Activity Design and Program of Activities for the Training of Trainors, along with the draft Special Order.

For consideration.

MARCIAL C. AMARO, JR.

Republic of the Philippines
Department of Entrangent and Natural Resources
BIODIVERSITY MANAGEMENT BURE/
BMB202302022

ACTIVITY DESIGN	
Activity Name	Training of Trainors and Pilot-Testing of the EarthRanger in Support to the Standardization and Enhancement of Biodiversity Assessment and Monitoring Tools Phase 2
Date and Venue	14-21 May 2023 Region 3, to be announced
Background/ Rationale	The Implementing Rules and Regulations of the National Integrated Protected Areas System (NIPAS) Act of 1992, as amended by the Expanded NIPAS Act of 2018, provides that sound resources assessment shall be used as one of the bases for the review and updating of protected area management plans. At present, Protected Area Management Offices use the Biodiversity Monitoring System (BMS) adopted in 2000, and the Biodiversity Assessment and Monitoring System (BAMS) adopted in 2016 in the assessment and monitoring of biological resources within protected areas. The BAMS provides baseline information on the biodiversity of various ecosystems in protected areas, which are monitored in the long-term (3-year interval). The BMS, on the other hand, aims to identify the trends in biodiversity resources and their uses at a shorter interval (at least twice a year).
	In October to December 2021, the SIBOL Project initiated the standardization of the assessment and monitoring tools used by the Biodiversity Management Bureau and Forest Management Bureau, with the goal of developing an automated and interoperable system to improve the currently used tools. The output will serve as basis for policy recommendation to rationalize the tools used in biodiversity resources assessment and monitoring, prevent duplication of efforts and resources allocation, and aid in protection and law enforcement.
	Phase I activities focused on the identification of data points being captured by the various assessment and monitoring systems across thematic areas. For BMB, the assessment and monitoring tools reviewed were the Biodiversity Assessment and Monitoring System, Biodiversity Monitoring System, Illegal Wildlife Trade, Priority Species Monitoring Program, and Asian Waterbird Census. For FMB, the Lawin Forest and Biodiversity Protection System was reviewed. Analysis of the results revealed the similarities and differences of data captured by each assessment and monitoring tool, challenges and gaps in the applicability of the tools in the field, and possible solutions to address these gaps. Based on the results of the Phase I activities, Phase II will focus on using an automated data capturing tool (EarthRanger) to collect the core datasets

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	common in each existing assessment and monitoring tool, and on field testing the tool in selected pilot sites to further improve its system and utility.
	To operationalize the Phase II activities, the BMB and the SIBOL Project intend to conduct a Training of Trainors and Pilot Testing of the automated data capturing tool on 14-21 May 2023 in Region 3. The conduct of the Training will also serve as input to the proposed establishment of the Protected Area Academy which is also being undertaken by the BMB through the SIBOL Project.
Objectives	The Training of Trainors and Pilot Testing aims to:
	Capacitate DENR and Protected Area Management Office Personnel on: a. use of standardized data capture using up-to-date
	conservation technology; b. managing captured data in EarthRanger; and 2. Field test the automated data capture technology and the standardized data model in selected pilot sites. 3. Gather feedback which will serve as input to the proposed establishment of a Protected Area Academy.
Expected outputs	 Data model for capturing data of interest; Capacitated DENR and PAMO personnel; Feedback on the use of automated data capture tool; and Proceedings of the Workshop
Participants	 BMB technical personnel from NPD, BPKMD, CAWED, CMD and WRD Protected Area Superintendent or Assistant PASu, 2 Technical Staff, and 1 PA Ranger from: Masinloc and Oyon Bay Protected Landscape and Seacape Mt. Mantalingahan Protected Landscape Puerto Princesa Subterranean River National Park Siargao Island Protected Landscape and Seascape Bataan National Park Facilitators from SIBOL-Strategic Approach 1
Mechanics	The first part of the Training of Trainors will be held in a classroom style setting. Personnel from the SIBOL Project will facilitate the training. At the start of the Training, a pre-evaluation survey will be conducted to gauge the participants' knowledge on biodiversity assessment and monitoring. A recapitulation on the use of BAMS and BMS will be presented, followed by the introduction of the EarthRanger to the participants. This will be followed by the Workshop on the

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setting up of the EarthRanger Mobile Application, simulated data capture, and data visualization.

A practicum will be held on Day 4 and Day 5 at the Masinloc and Oyon Bay Protected Landscape and Seascape and adjacent forests. Feedback on user experience of the tool will be gathered. A monitoring plan on the field testing of the tool at each site will also be developed. These will be used as basis for the improvement of the system prior to its further testing in other protected areas and subsequent adoption.

Prepared by:

Endorsed by:

MERIDEN E. MARANAN

Chief National Parks Division RANDÝ C. MABANA

Head

Human Resources Development Unit

Approved:

MARCIAL C. AMARO, JR.

Director
In concurrent capacity as Assistant Secretary
for Policy, Planning and Foreign-Assisted
and Special Projects

TRAINING OF TRAINORS AND PILOT-TESTING OF THE EARTHRANGER IN SUPPORT TO THE STANDARDIZATION AND ENHANCEMENT OF BIODIVERSITY ASSESSMENT AND MONITORING TOOLS PHASE 2

14-21 May 2023 Zambales

PROGRAM OF ACTIVITIES

Time	Topic/Activity	Responsible Person
14 May 2023 (Sund	ay), Day 0 – Arrival of Participants	3
3:00 PM onwards	Check-in and Registration	All participants
5:00-6:00 PM	Orientation and Reminders	Facilitators and participants
	Pre-evaluation	
6:00 PM	Dinner	
15 May 2023 (Mond		
8:00-8:30 AM	Technical set-up, audio, video and WiFi checks	Facilitators
8:30-9:00 AM	Registration	
9:00-9:15 AM	Opening Program Prayer National Hymn Introduction of Participants	All participants
9:15-9:30 AM	Welcome Remarks	RED Paquito T. Moreno, Jr., CESO III DENR Region 3 PENRO Marife L. Castillo PENRO Zambales
9:30-9:45 AM	Opening Message	ASec. Marcial C. Amaro, Jr. BMB Director, in concurrent capacity as Asst. Secretary for Policy, Planning, and Foreign-Assisted and Special Projects
9:45-10:00 AM	Levelling-off and expectation setting Group Photo	
10:00 AM-12:00 NN	Revisiting BAMS and BMS DAO/TB Salient features Objectives and purpose Current status of implementation and usefulness of the system	Daniel S. Garino, Jr. BMB-NPD

Time	Topic/Activity	Responsible Person
	 Local context, 	
	reflections, and lessons	
	learned on the	
	implementation; its	
	relevance to PA	
40.00 1111 4.00 514	management	
12:00 NN-1:00 PM	Lunch	
1:00-2:00 PM	Data Standardization Background (1hr)	SIBOL Resource Person
	Transitioning from Paper to	
	Digital Solutions	
	Defining the conservation	
	area	
	Demonstrate the	
	similarities and difference	
	 Used case scenarios 	
2:00-3:00 PM	Navigating the E-BMS and E-BAMS (1hr)	SIBOL Resource Person
3:00-4:00 PM	Introduction to EarthRanger	Beatrice Hipolito SIBOL-SA1
	For Mentors:	
	Accounts Set-up on	SIBOL Facilitators
	EarthRanger Dashboard	
	Walkthrough and Exercise:	Identified Mentors
	EarthRanger Dashboard	
	Accounts Set-up on	
	EarthRanger Mobile	
4:00-4:30 PM	Summary	
	Reminders for Day 2	
	Group Photo	
End of Day 1		
16 May 2023 (Tueso		Y
8:00-8:30 AM	Tech set-up, audio, video and	
	WiFi checks, registration	
8:30-8:45 AM	Recap	
8:45-9:00 AM	Introduction to EarthRanger:	Beatrice Hipolito
	History, uses, features and	SIBOL-SA1
	process	
9:00-9:45 AM	Accounts Set-up on	SIBOL Facilitators and
	EarthRanger Mobile (for PA Rangers)	Mentors
9:45-11:45 AM	Walkthrough and Exercise:	
	EarthRanger Mobile	}
	Classroom and Field	
	Exercise	
11:45 AM-12:00	Data Visualization: Earth	Beatrice Hipolito
NN	Ranger Dashboard	SIBOL-SA1

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Time	Topic/Activity	Responsible Person
12:00 NN-1:00 PM	Lunch	
1:00 PM-4:00 PM	Live walkthrough of E-BAMS (3hrs) Interface Methods and techniques	All participants
4:00-4:30 PM	Summary Reminders for Day 3 Group Photo	
End of Day 2		
17 May 2023 (Wedn	esday), Day 3	
8:00-8:30 AM	Tech set-up, audio, video and WiFi checks, registration Preparation for Field Demo	Facilitators
8:30-8:45 AM	Recap	Facilitators
8:45 AM-12:00 NN	Live walkthrough of E-BMS (2hrs) Interface Methods and techniques	Facilitators
12:00 NN-1:00 PM	Lunch	
1:00 PM-3:00 PM	Hands-on demo: Hands-on Practicum	Facilitators
3:00-4:00 PM	Preparation for field practicum Group Assignments Logistics	Facilitators
4:00-4:30 PM	Summary Reminders for Day 4 Group Photo	
End of Day 3		
18 May 2023 (Thurs	sday), Day 4	
5:30-6:00 AM	Assembly	All participants
6:00-7:00 AM	Travel to field site	
7:00 AM-2:00 PM	Field practicum	
2:00-3:00 PM	Travel back to venue	
3:00-4:00 PM	Summary Reminders for Day 5 Group Photo	
End of Day 4	•	
19 May 2023 (Frida	y), Day 5	
5:30-6:00 AM	Assembly	All participants
6:00-7:00 AM	Travel to field site	
7:00 AM-2:00 PM	Field practicum	
2:00-3:00 PM	Travel back to venue	
3:00-4:00 PM	Summary Reminders for Day 5 Group Photo	
		The state of the s
End of Day 5		

Topic/Activity	Responsible Perso
Tech set-up, audio, video and WiFi checks, registration	
Group Presentations Gallery viewing of results Sharing of experiences in using the tech-based data collection during the pilottest	All participants (Mentors and Rangers)
Feedbacking	Facilitators and Mentors
Monitoring Plan Formulation	All participants
Lunch	
Post-evaluation survey	All participants
Calibration	Facilitators and Mentors BMB and SIBOL
	WiFi checks, registration Group Presentations Gallery viewing of results Sharing of experiences in using the tech-based data collection during the pilottest Feedbacking Monitoring Plan Formulation Lunch Post-evaluation survey

SPECIAL ORDER
No. 2023

SUBJECT: AUTHORIZING THE CONDUCT OF THE TRAINING OF TRAINORS AND PILOT-TESTING OF THE EARTHRANGER IN SUPPORT TO THE STANDARDIZATION AND ENHANCEMENT OF BIODIVERSITY ASSESSMENT AND MONITORING TOOLS PHASE 2 ON 14-21 MAY 2023 IN THE PROVINCE OF ZAMBALES

In the interest of the service and to rationalize and improve the processes on the assessment and monitoring of biodiversity, the Training of Trainors and Pilot-Testing of the EarthRanger in Support to the Standardization and Enhancement of Assessment and Monitoring Tools Phase 2: Systems Upgrade and Set-Up is hereby authorized to be conducted on 14-21 May 2023 in the Province of Zambales at a venue to be announced later.

The participation of the following personnel from the Biodiversity Management Bureau, DENR Field Offices, and Protected Area Management Offices is hereby authorized:

Biodiversity Management Bureau

- 1. Meriden E. Maranan, NPD
- 2. Francisco B. Feliciano, NPD
- 3. Daniel S. Garino Jr., NPD
- 4. Reneo B. Vicente, NPD
- 5. Juliana A. Balogo, NPD
- 6. Morshid C. Dimaporo, NPD
- 7. Ramon Lorenzo Reyes, NPD
- 8. Elpidio B. Gelera Jr., NPD
- 9. John Alerta, BPKMD
- 10. Michelle Aplan, BPKMD
- 11. Selected representatives each from the CAWED, CMD, and WRD (2 representatives each)

Masinloc and Oyon Bay Protected Landscape and Seascape

- 1. Protected Area Superintendent or Assistant Protected Area Superintendent
- 2. Technical Staff with background in geospatial analysis (2)
- 3. Protected Area Ranger (1)

Mt. Mantalingahan Protected Landscape

- 1. Protected Area Superintendent or Assistant Protected Area Superintendent
- 2. Technical Staff with background in geospatial analysis (2)
- 3. Protected Area Ranger (1)

Siargao Island Protected Landscape and Seascape

- 1. Protected Area Superintendent or Assistant Protected Area Superintendent
- 2. Technical Staff with background in geospatial analysis (2)
- 3. Protected Area Ranger (1)

Puerto Princesa Subterranean River National Park

- 1. Protected Area Superintendent or Assistant Protected Area Superintendent
- 2. Technical Staff with background in geospatial analysis (2)
- 3. Protected Area Ranger (1)

Bataan Natural Park

- 1. Protected Area Superintendent or Assistant Protected Area Superintendent
- 2. Technical Staff with background in geospatial analysis (2)
- 3. Protected Area Ranger (1)

Personnel from the Sustainable Interventions for Biodiversity, Oceans and Landscapes (SIBOL) – Strategic Approach 1, as well as SIBOL SA1 focal persons for MOBPLS, PPSRNP, MMPL, and SIPLAS shall be invited as facilitators and Resource Persons for the Trainors' Training.

Expenses for food, venue, and accommodation that will be incurred during the activity shall be charged to BMB funds, while airfare and other traveling expenses of the DENR participants shall be charged against the funds of their respective offices, subject to the usual accounting and auditing rules and regulations. Expenses for transport vehicles to ferry the participants from the BMB to the venue and vice versa, as well as mobilization within Region 3, shall be charged against the funds of the SIBOL Project. Expenses for supplies and materials shall be co-funded by the BMB and SIBOL Project.

The BMB Director is authorized to change the date and venue of the Trainors' Training in case of conflict and unforeseen circumstances. The BMB shall likewise submit to this Office an accomplishment report fifteen (15) days after the activity.

This Order takes effect on the dates specified herein.

AUGUSTO D. DELA PEÑA

Undersecretary for Organizational Transformation and Human Resources