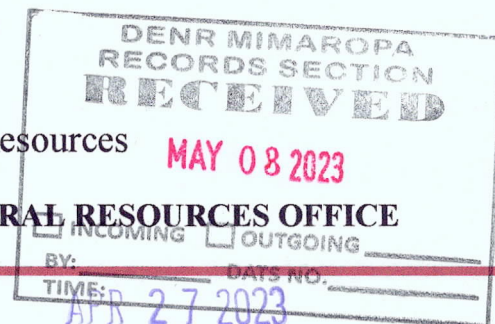




Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
PROVINCIAL ENVIRONMENT AND NATURAL RESOURCES OFFICE



MEMORANDUM

FOR : The Regional Executive Director
DENR MIMAROPA Region
1515 DENR By the Bay Building, Roxas Boulevard,
Barangay 668, Ermita, Manila

THRU : The ARD for Management Services

FROM : The OIC, PENR Officer

SUBJECT : **SUBMISSION OF REPORT FOR FAUNAL MONITORING REPRESENTING DRY SEASON IN THE ESTABLISHED 2-HA PERMANENT BIODIVERSITY MONITORING AREA IN MT. CALAVITE WILDLIFE SANCTUARY (MCWS)**

Forwarded is the memorandum dated April 24, 2023 of CENRO Sablayan regarding submission of report for Faunal Monitoring Representing Dry Season in the established 2-Ha Permanent Biodiversity Monitoring Area conducted on March 24-28, 2023.

Based on the report submitted a total of 53 terrestrial wildlife species consisting of five species of frogs, seven species of reptiles, 32 species of birds and nine species of mammals. Among the recorded species from different animal classes there were Philippine endemics as well as Mindoro endemics. One notable result is the recording of Mt. Calavite Wildlife Sanctuary flagships species, which is the Mindoro Tarictic Hornbill (*Penelopides mindorensis*). Apart from that, there were also new records of species of (1) reptile, (12) birds and (2) bats which were not recorded from the past monitoring conducted within the area.

For information and record.


ERNESTO E. TAÑADA

TSD-CDS4/26/2023

Copy furnished:

1. Planning Section
2. File

So. Pag-asa, Brgy. Payompon, Mamburao, Occidental Mindoro
Email: penrooccmn@denr.gov.ph



Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

April 24, 2023

MEMORANDUM

FOR : The Regional Executive Director
DENR MIMAROPA Region
1515 DENR By the Bay Building, Roxas Boulevard,
Barangay 668, Ermita, Manila

THRU : The PENR Officer
Mamburao, Occidental Mindoro

FROM : The CENR Officer

SUBJECT : SUBMISSION OF REPORT FOR FAUNAL MONITORING
REPRESENTING DRY SEASON IN THE ESTABLISHED 2-HA
PERMANENT BIODIVERSITY MONITORING AREA IN MT.
CALAVITE WILDLIFE SANCTUARY (MCWS)

RECORDED
Date: 4-24-23
By: [Signature]

PENRO	
RECEIVED BY:	[Signature]
DATE:	4/24
TIME:	
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TIME:	

Respectfully submitted is the report of Mt. Calavite Wildlife Sanctuary-Protected Area Management Office (MCWS-PAMO) dated April 20, 2023 regarding the faunal monitoring representing dry season in the established 2-Ha Permanent Biodiversity Monitoring Area conducted on March 24-28, 2023.

The result of the activity recorded a total of 53 terrestrial wildlife species consisting of five species of frogs, seven species of reptiles, 32 species of birds and nine species of mammals. Among the recorded species from different animal classes there were Philippine endemics as well as Mindoro endemics. One notable result is the recording of Mt. Calavite Wildlife Sanctuary flagship species, which is the Mindoro Tarictic Hornbill (*Penelopides mindorensis*). Apart from that there were also new records of species of (1) reptile, (12) birds and (2) bats which were not recorded from the past monitoring conducted within the area.

For your information, evaluation and record

RECORDS	
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RECEIVED BY:	[Signature]
DATE:	4/24/23
TIME:	10:28am
RELEASED BY:	
DATE:	4/24/23
TIME:	2:50pm

National Road, Brgy. Sto. Niño, Sablayan, Occidental Mindoro
[Signature] cenrosablayan@denr.gov.ph

FOR. ANASTACIO A. SANTOS, MPA

CDS	
RECEIVED BY:	Q24-9
DATE:	4/26/23
TIME:	3:16 PM
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DATE:	4/27/23
TIME:	11:51 AM



Republic of the Philippines

Department of Environment and Natural Resources

MIMAROPA Region

COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

MT. CALAVITE WILDLIFE SANCTUARY

PROTECTED AREA MANAGEMENT OFFICE

April 20, 2023

MEMORANDUM

FOR : The Regional Executive Director
DENR MIMAROPA Region
1515 DENR By the Bay Building, Roxas Boulevard,
Barangay 668, Ermita, Manila

THRU : The PENR Officer
Mamburao, Occidental Mindoro

The CENR Officer
Sablayan, Occidental Mindoro

FROM : The Protected Area Superintendent

SUBJECT : SUBMISSION OF REPORT FOR FAUNAL MONITORING
REPRESENTING DRY SEASON IN THE ESTABLISHED 2-HA
PERMANENT BIODIVERSITY MONITORING AREA IN MT.
CALAVITE WILDLIFE SANCTUARY (MCWS)

Submitting herewith the report for faunal monitoring representing dry season in the established 2-Hectare Permanent Biodiversity Monitoring Area of MCWS, conducted on March 24-28, 2023.

In summary, the team has recorded a total of 53 terrestrial wildlife species consisting of five species of frogs, seven species of reptiles, 32 species of birds and nine species of mammals. Among the recorded species from different animal classes there were Philippine endemics as well as Mindoro endemics. One notable result is the recording of Mt. Calavite Wildlife Sanctuary flagship species, which is the Mindoro Tarictic Hornbill (*Penelopides mindorensis*). Apart from that, there were also new records of species of (1) reptile, (12) birds and (2) bats which were not recorded from the past monitoring conducted within the area.

For your information, evaluation and record.


ARLENE V. FRANCISCO



REPORT FOR FAUNAL MONITORING REPRESENTING DRY SEASON IN THE ESTABLISHED 2-HA PERMANENT BIODIVERSITY MONITORING AREA IN MT. CALAVITE WILDLIFE SANCTUARY (MCWS)

Mt. Calavite Wildlife Sanctuary, one of the four proclaimed protected areas in the Island of Mindoro, has been home to different floral and faunal species ever since before its proclamation. Being categorized as a wildlife sanctuary under the NIPAS Act of 1992, it has been a place that provides natural protection for different wildlife that may need specific human intervention to thrive and survive. However, with the overwhelming anthropogenic activities and the effects of climate change that threatens the wildlife within the area, consistent monitoring is necessary. On March 24-28, 2023, the combined team of Mt. Calavite Wildlife Sanctuary – Protected Area Management Office (MCWS-PAMO) staff, Tamaraw Conservation Program (TCP) Personnel and expert from University of Santo Tomas - Project MATAPAT went to the MCWS 2-hectare Permanent Biodiversity Monitoring Area (PBMA). This 2-ha PBMA is an area in MCWS with the highest biodiversity value, based on the study conducted by MCRMFI last 2018. The objective of this 5-day long activity is to monitor the faunal biodiversity within the 2-ha PBMA representing the dry-season.

In order to assess and monitor the faunal biodiversity of the MCWS 2-ha PBMA multiple methods that were designed and particular to specific faunal classes were implemented. A total of 18 mist nets and 2 sky-nets were set-up in 7 different locations, this method was implemented to assess the avifaunal and non-volant mammalian biodiversity within the area. These mist nets were monitored 2 times a day at morning for as early as 6:00-7:00 AM and at night at around 9:00-10:00 PM. In addition, the transect walk method was also implemented for herpetofaunal and another avifaunal biodiversity assessment. This was done 2 times a day at morning and afternoon. Moreover, a total of 6 mouse traps with charred coconut meat were also set-up in different locations on the 2-ha PBMA, to assess the volant mammalian biodiversity within the area. These traps were set-up over-night and were retrieved daily every morning. On the other hand, an opportunistic approach was implemented to assess the biodiversity of arthropods species within the area.

A total of fifty-three (53) terrestrial wildlife species consisting of five (5) species of frogs, seven (7) species of reptiles, thirty-two (32) species of birds and nine (9) species of mammals were recorded. Among the six (6) species of frogs, three (3) were Philippine endemics: Rough-backed Forest frog (*Platymantis curugatus*), Dumeril's wrinkled ground frog (*Platymantis dorsalis*), and Busuanga wart frog (*Limnonectes acanthi*), and two (2) were Mindoro endemics (Table 1). Mindoro litter frog (*Leptobrachium mangyanorum*) and Mindoro true frog (*Hylarana mangyanum*) were the two (2) most notable frog species, as these species were endemic in the island of Mindoro. On the other hand, in terms of the recorded reptiles there were three (3) Philippine endemics such as Cuming's sphenomorphus (*Otosaurus cumingi*), Philippine bent-toed gecko (*Cyrtodactylus philippinicus*), and Flying Lizard (*Draco quadrasi*) while the rest were native



species. Moreover, the record of *D. quadrasi* within the area was new. A species of Rat snake was the only snake species recorded.

A combined total of thirty-two (32) species of birds were recorded from both mist netting and transect walk method (Table 2). Among all species of birds, recording of the Mindoro endemic species, Mindoro boobook (*Ninox mindorensis*), Mindoro racket-tail (*Prioniturus mindorensis*), Scarlet flowerpecker (*Dicaeum retrocinctum*) and the MCWS flagship species, Mindoro hornbill (*Penelopides mindorensis*) and one (1) near endemic species which is Coledo (*Sarcops calvus*) were significant. Apart from that there were also six (6) Philippine endemic species such as Philippine bulbul (*Hypsipetes philippinus*), Balicassiao (*Dicrurus balicassius*), White Eared Brown Dove (*Phapitreon leucotis*), Pygmy Flowerpecker (*Dicaeum pygmaeum*), Philippine Falconet (*Microhierax erythrogenys*) and Philippine Serpent-Eagle (*Spilornis holospilus*). Likewise, another significant finding from this activity was the recording of thirteen (13) new species of birds within the 2-ha PBMA that were not recorded from the past monitoring activity conducted in the area. These birds were Mindoro racket-tail (*Prioniturus mindorensis*), Common emerald dove (*Chalcophaps indica*), Lesser Coucal (*Centropus bengalensis*), Green Imperial Pigeon (*Ducula aenea*), Common Emerald Pigeon (*Chalcophaps indica*), Brown Shrike (*Lanius cristatus*), Common Koel (*Eudynamis scolopacea*), Eastern Yellow Wagtail (*Motacilla tschutschensis*), Pompadour Green Pigeon (*Treron pompadora*), Philippine Falconet (*Microhierax erythrogenys*), White Collared Kingfisher (*Todiramphus chloris*), Hooded Pitta (*Pitta sordida*) and Philippine Serpent-Eagle (*Spilornis holospilus*). Furthermore, there were additional four (4) species of birds recorded that the team is yet to identify, these were a species of Koel, Parrot, and birds locally known as Seloy and Salaksakan.

There was a total of nine (9) mammalian species recorded from the activity (Table 3). Six (6) among the nine (9) species were bats consisting of fruit bats: Musky fruit bat (*Ptenochirus jagori*) and Common short-nosed fruit bat (*Cynopterus brachyotis*); nectar bats: Geoffroy's rousette (*Rousettus amplexicaudatus*), and Long-tongued nectar bat (*Macroglossus minimus*); and insect bats: Philippine pygmy roundleaf bat (*Hipposideros pygmaeus*) and Lesser false vampire bat (*Megaderma spasma*). Moreover, *R. amplexicaudatus* and *M. spasma* were new records and weren't recorded from the past faunal biodiversity monitoring conducted within the area. Apart from bat species, the activity also recorded one species of rat. Unfortunately, this species of rat has residency status of introduced/invasive species and this is Oriental house rat (*Rattus tanezumii*). Native species of primates was also recorded, a Long-tailed macaque (*Macaca fascicularis*), which was observed climbing on the trees inside the 2-ha PBMA. Lastly, during the first night of the activity, Mindoro endemic species of pig, Mindoro warty pig (*Sus oliveri*) were seen in the area. In addition, from witnessing this elusive species, there were also visible traces of this species evident in the area including its dung.

Unfortunately, due to the difficulty of identifying species of arthropods and the lack of available experts, arthropods data obtained from this activity were not included. However, identification of species from this phylum is on-going.



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Overall, the 5-day long activity conducted on the 2-ha PBMA uncover the different faunal species in Mt. Calavite Wildlife Sanctuary. Moreover, data gathered from this activity will serve as a baseline data for the faunal biodiversity of the 2-ha MCWS PBMA during dry season.

Prepared by:

JOHN BENEDICK O. PERIDA

EMS I

Checked and reviewed:

JOSIE R. CORPUZ

ECOMS I/Technical Support Staff

ARLENE V. FRANCISCO

Protected Area Superintendent



Republic of the Philippines

Department of Environment and Natural Resources

MIMAROPA Region

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Table 1. Checklist of amphibians and reptiles recorded in MCWS

No.	Species	Common name	Residency status	Habitat association	Conservation status		
					IUCN 2022-2	CITES	DAO 2019-09
	Class Amphibia						
1	<i>Platymantis curugatus</i>	Rough-backed forest frog	Philippine endemic	Forested areas; terrestrial	Not listed	Not listed	Not listed
2	<i>Platymantis dorsalis</i>	Dumeril's wrinkled ground frog	Philippine endemic	Forested areas; terrestrial	Least Concern	Not listed	Not listed
3	<i>Limnonectes acanthi</i>	Busuanga wart frog	Philippine endemic	Forested areas; amphibious	Near Threatened	Not listed	Not listed
4	<i>Leptobrachium mangyanorum</i>	Mindoro litter frog	Mindoro endemic	Forested areas; terrestrial	Vulnerable	Not listed	Other threatened species
5	<i>Pulchrana mangyanum</i>	Mindoro true frog	Mindoro endemic	Forested areas; aquatic	Vulnerable	Not listed	Not listed
	Class Reptilia						
6	<i>Draco volans</i>	Malay flying dragon	Native	Forested areas	Least Concern	Not listed	Not listed
7	<i>Gekko gekko</i>	Tokay gecko	Native	Forested and open areas	Least Concern	II	Not listed
8	<i>Eutropis multicaarinata</i>	Two-striped mabouya	Native	Forested to open areas	Least Concern	Not listed	Not listed
9	<i>Otosaurus cumingi</i>	Cuming's sphenomorphus	Philippine endemic	Forested areas	Least Concern	Not listed	Not listed
10	<i>Cyrtodactylus philippinicus</i>	Philippine bent-toed gecko	Philippine endemic	Forested areas	Least Concern	Not listed	Not listed
11	<i>Draco quadrasi</i>	Flying Lizard	Philippine endemic	Forested areas	Least Concern	Not listed	Not listed
12	-	Ratsnake	-	-	-	-	-



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MT. CALAVITE WILDLIFE SANCTUARY

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Figure 1. Herpetofaunal species recorded in the MCWS. Top (left to right): *Platymantis currogatus*, *Limnonectes acanthi*, *Leptobrachium mangyanorum*; **Bottom (left to right):** *Pulchrana mangyanum*, *Draco Volans*, *Cyrtodactylus philippinicus*



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 COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
 MT. CALAVITE WILDLIFE SANCTUARY
 PROTECTED AREA MANAGEMENT OFFICE

Table 2. Checklist of birds recorded in the MCWS

No.	Species	Common name	Residency status	Habitat association	Conservation status		
					IUCN 2022-2	CITES	DAO 2019-09
1	<i>Ceyx erithaca</i>	Oriental dwarf kingfisher	Resident	Forested & open areas	Least Concern	Not listed	Not listed
2	<i>Coracina striata</i>	Bar-bellied cuckooshrike	Resident	Forested & open areas	Least Concern	Not listed	Not listed
3	<i>Hypsipetes philippinus</i>	Philippine bulbul	Philippine endemic	Forested areas	Least Concern	Not listed	Not listed
4	<i>Cyornis rufigastra</i>	Mangrove blue-flycatcher	Resident	Forested & open areas	Least Concern	Not listed	Not listed
5	<i>Prioniturus mindorensis</i>	Mindoro racket-tail	Mindoro endemic	Forested & open areas	Vulnerable	Not listed	Endangered
6	<i>Dicrurus balicassius</i>	Balicassiao	Philippine endemic	Forested areas	Least Concern	Not listed	Not listed
7	<i>Chalcophaps indica</i>	Common emerald dove	Native	Forested & open areas	Least Concern	Not listed	Not listed
8	<i>Ninox mindorensis</i>	Mindoro boobook	Mindoro endemic	Forested areas	Vulnerable	II	Vulnerable
9	<i>Centropus bengalensis</i>	Lesser Coucal	Native	Forested & open areas	Least Concern	Not listed	Not listed
10	<i>Phapitreon leucotis</i>	White Eared Brown Dove	Philippine endemic	Forested areas	Not listed	Not listed	Not listed
11	<i>Ducula aenea</i>	Green Imperial Pigeon	Resident	Forested areas	Near threatened	Not listed	Not listed
12	<i>Corvus macrorhynchos</i>	Large Billed Crow	Resident	Forested & open areas	Least concern	Not listed	Not listed
13	<i>Sarcops calvus</i>	Coletto	Near endemic	Forested areas	Least concern	Not listed	Not listed
14	<i>Gallus gallus</i>	Red-jungle Fowl	Resident	Forested areas	Least Concern	Not listed	Not listed
15	<i>Penelopides mindorensis</i>	Mindoro Tarsier	Mindoro endemic	Forested areas	Endangered	II	Endangered
16	<i>Dryocopus javensis</i>	White Bellied Wood Pecker	Resident	Forested areas	Least concern	I	Not listed
17	<i>Dicaeum retrocinctum</i>	Scarlet Flower Pecker	Mindoro endemic	Forested & open areas	Vulnerable	Not listed	Not listed
18	<i>Lanius cristatus</i>	Brown Shrike	Migrant	Forested & open areas	Least concern	Not listed	Not listed
19	<i>Oriolus chinensis</i>	Black Naped Oriole	Resident	Forested & open areas	Least concern	Not listed	Not listed



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20	<i>Eudynamys scolopaceus</i>	Common Koel	Resident	Forested & open areas	Least concern	Not listed	Not listed
21	<i>Dicaeum pygmaeum</i>	Pygmy Flower Pecker	Philippine endemic	Forested areas	Least concern	Not listed	Not listed
22	<i>Motacilla tschutschensis</i>	Eastern Yellow Wagtail	Resident	Forested areas	Least concern	Not listed	Not listed
23	<i>Treron pompadora</i>	Pompadour Green Pigeon	Resident	Forested areas	Least concern	Not listed	Not listed
24	<i>Microhierax erythrogenys</i>	Philippine Falconet	Philippine endemic	Forested areas	Least concern	II	Not listed
25	<i>Macropygia phasianella</i>	Reddish Cuckoo Dove	Resident	Forested areas	Least concern	Not listed	Not listed
26	<i>Todiramphus chloris</i>	White Collared Kingfisher	Resident	Forested & open areas	Least concern	Not listed	Not listed
27	<i>Pitta sordida</i>	Hooded Pitta	Resident	Forested & open areas	Least concern	Not listed	Not listed
28	<i>Spilornis holospilus</i>	Philippine Serpentine-Eagle	Philippine endemic	Forested areas	Least concern	II	Not listed
29	-	Koel	-	-	-	-	-
30	-	Parrot	-	-	-	-	-
31	-	Seloy	-	-	-	-	-
32	-	Salaksakan	-	-	-	-	-



Figure 2. Avifaunal species recorded in the MCWS. Top (left to right): *Ceyx erithaca*, *Coracina striata*, *Hypsipetes philippinus*; **Middle (left to right):** *Cyornis ruficastra*, *Prioniturus mindorensis*, *Dicterurus balicassius*; **Bottom (left to right):** *Ninox mindorensis*, *Penelopides mindorensis*, *Phapitreon leucotis*



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 MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
 MT. CALAVITE WILDLIFE SANCTUARY
 PROTECTED AREA MANAGEMENT OFFICE

Table 3. Checklist of mammals recorded in the MCWS

No.	Species	Common name	Residency status	Habitat association	Conservation status		
					IUCN 2022-2	CITES	DAO 2019-09
Class Chiroptera							
1	<i>Ptenochirus jagori</i>	Musky fruit bat	Philippine endemic	Common in secondary forest, often present in cropland and urban parks and residential areas	Least Concern	Not listed	Not listed
2	<i>Cynopterus brachyotis</i>	Common short-nosed fruit bat	Native	Agricultural areas; Disturbed forests	Least Concern	Not listed	Not listed
3	<i>Hipposideros pygmaeus</i>	Philippine pygmy roundleaf bat	Philippine endemic	Caves in or near forested areas	Least Concern	Not listed	Not listed
4	<i>Rousettus amplexicaudatus</i>	Geoffroy's rousette	Native	Agricultural areas; Disturbed forests	Least Concern	Not listed	Not listed
5	<i>Macroglossus minimus</i>	Long-tongued nectar bat	Native	Urban coastal areas to denser forested areas	Least Concern	Not listed	Not listed
6	<i>Megaderma spasma</i>	Lesser false vampire bat	Native	Hollow trees, caves, buildings and wet areas	Least Concern	Not listed	Not listed
Class Carnivora							
7	<i>Rattus tanezumi</i>	Oriental house rat	Introduced; invasive	Agricultural areas; Disturbed forests	Least Concern	Not listed	Not listed
Order Primates							
8	<i>Macaca fascicularis</i>	Long-tailed macaque	Native	Forested areas	Endangered	II	Not listed
Order Artiodactyla							
9	<i>Sus oliveri</i>	Mindoro warty pig	Mindoro endemic	Forested areas	Vulnerable	Not listed	Endangered



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COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

MT. CALAVITE WILDLIFE SANCTUARY

PROTECTED AREA MANAGEMENT OFFICE



Figure 3. Mammal species recorded in the MCWS. Top (left to right): *Rousettus amplexicaudatus*, *Macroglossus minimus*, *Megaderma spasma*; **Bottom (left to right):** *Ptenochirus jagori*, *Rattus tanezumi*

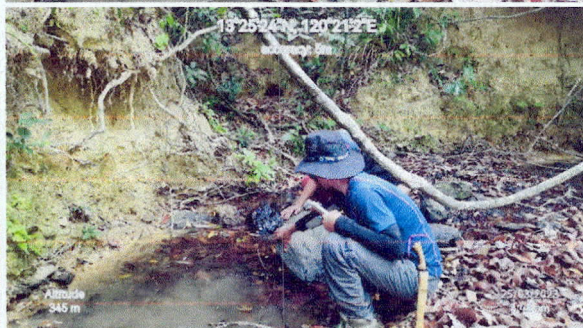
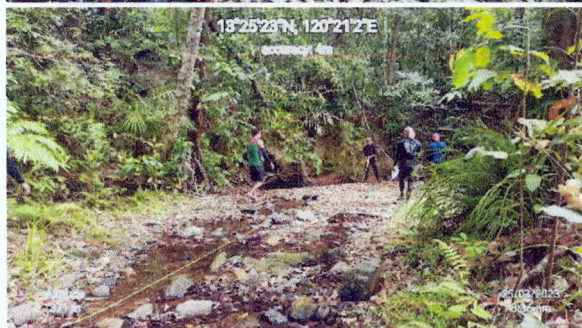
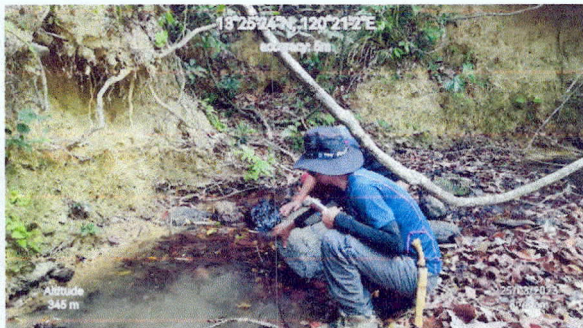
APPENDIX A



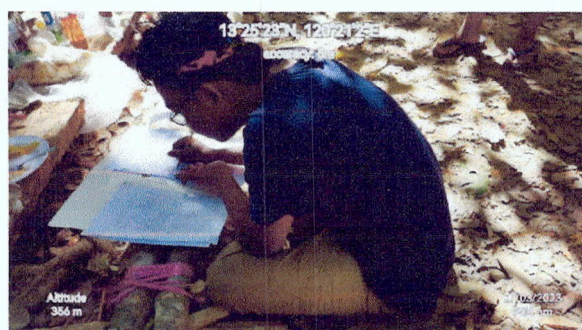
Setting up mist net for avifaunal and non-volant mammalian biodiversity monitoring



Recovery of trapped species for avifaunal and non-volant mammalian biodiversity monitoring



Transect walk for avifaunal and herpetofaunal biodiversity monitoring



Recording and identification of recorded species

Annex 6.11. Checklist of herpetofauna

Protected Area:			Date: 03/24/2023				
Plot No. ---	Quadrat No. ----	Coordinates: N E	Observer(s): PENR PAMO, TCP, UST MAYAPAT				
	Transect No. ----	Elevation: masl	Vegetation Type: Riverbank				
		GPS Unit:	Weather:				
NO.	CLASS	DISTRIBUTION STATUS	RECORDING METHOD	HABITAT ASSOCIATION	POPULATION STATUS		
	ORDER SPECIES				IUCN	CITES	PWA
001	P. curugatus						
002	L. acantii						
003	L. mangayana						
004	H. rugulus						
005	H. mangayana						
006	L. acantii	(2)					
007							
008	D. volans						
009	G. gekko	(2)					
010							
011							
012							
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Annex 6.11 Checklist of herpetofauna

Protected Area:		Date: 03/25/2023					
Plot No. ---	Quadrat No. ----	Coordinates: N E	Observer(s): DENR-FAMO, TCP, UST MATAPAT				
	Transect No. ----	Elevation: masl	Vegetation Type: Riverbank				
		GPS Unit:	Weather:				
NO.	CLASS	DISTRIBUTION STATUS	RECORDING METHOD	HABITAT ASSOCIATION	POPULATION STATUS		
	ORDER SPECIES				IUCN	CITES	PWA
001	L. mangroveum	(2)					
002	L. ornatus	(8)					
003	P. dorsalis	(1)					
004	P. curvatus	(1)					
005							
006	G. gekko	(1)					
007							
008	Red snake	(1)					
009							
010							
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016							
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Annex 6.11. Checklist of herpetofauna

Protected Area:			Date: 03/24/2023				
Plot No. ----	Quadrat No. ----	Coordinates: N E	Observer(s): DENR-PAMO, TOP, DST MATAPAT				
	Transect No. ----	Elevation: masl	Vegetation Type: Riverbank				
		GPS Unit:	Weather:				
NO.	CLASS	DISTRIBUTION STATUS	RECORDING METHOD	HABITAT ASSOCIATION	POPULATION STATUS		
	ORDER SPECIES				IUCN	CITES	PWA
001	E. multicauda (1)						
002	O. lumingay (2)						
003	Z. pilipinicus (3)						
004	P. dorsalis (3)						
005	L. acanthi (1)						
006	P. curvatus (1)						
007	H. nigrilatus (2)						
008	L. mangyanum (2)						
009	P. mangyanum (2)						
010							
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Annex 6.11. Checklist of herpetofauna

Protected Area:		Date: 03/27/2023					
Plot No. ---	Quadrat No. ---	Coordinates: N E	Observer(s): DENR-PAMO, TCP, UST MATAPAT				
	Transect No. ---	Elevation: masl	Vegetation Type: River bank				
		GPS Unit:	Weather:				
NO.	CLASS	DISTRIBUTION STATUS	RECORDING METHOD	HABITAT ASSOCIATION	POPULATION STATUS		
	ORDER SPECIES				IUCN	CITES	PWA
001	Tuko	(4)					
002	P. torcalis	(2)					
003	H. ngulais	(1)					
004	L. mangyanum	(1)					
005	L. acanthii	(1)					
006	Ratsnake	(1)					
007							
008							
009							
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Annex 6.19. Field data sheet for small non-volant mammal trapping

Protected Area:				Date: 6/3/27/2023		Time:	
Plot No. ---	Quadrat No. ----	Coordinates: N E		Observer(s): DENR - RAMO, TLP, VST MATAPAT			
	Transect No. ----	Elevation: masl		Vegetation Type:			
		GPS Unit:		Weather:			

NO.	SPECIES	SEX	AGE	FREQ	SAMPLE MEASUREMENTS* (in mm)					REMARKS
					HBL	TL	EL	HL	Wt	
001	Rat			(2)						
002										
003										
004										
005										
006										
007										
008										
009										
010										
011										
012										
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*Legend: HBL - Head-to-body length, TL - Tail length, EL - Ear length, HL - Hindfoot length, Wt - Weight in grams

Annex 6.15. Field data sheet for bird mistnetting

Protected Area:		Date: 08/24/2023	Time: 5:15 PM
Plot No. ---	Quadrat No. ----	Coordinates: N E	Observer(s): DENR PAMO, TCP, LST MATABAT
	Transect No. -----	Elevation: masl	Vegetation Type: open grassland disturb
		GPS Unit:	Weather:

NO.	SPECIES	SEX	FREQ	SAMPLE MEASUREMENTS* (in mm)							REMARKS
				TL	TV	WC	B	G	T	Wt	
001	C. brachyotis	M									
002	C. brachyotis	M									
003	C. brachyotis	M									
004	P. jogori	F									
005											
006	03/25/2023										
007	C. brachyotis	M									
008	C. brachyotis	F									
009	03/26/2023										
010	P. jogori	F									
011	P. jogori	F									
012											
013	03/27/2023										
014	C. brachyotis	M									
015	C. brachyotis	F									
016											
017											
018											
019											
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027											
028											
029											
030											

*Legend: TL - Total length, TV - Tail-vent length, WC - Wing cord, B - Bill or culmen length, G - Width of gape, T - Tarsus length, Wt - Body weight (in grams)

M 2

Annex 6.15. Field data sheet for bird mistnetting

Protected Area:		Date: 09/29/2023	Time:
Plot No. ----	Quadrat No. ----	Coordinates: N E	Observer(s): DENR RAMO, TCP, UST MATAPAT
	Transect No. ----	Elevation: masl	Vegetation Type:
		GPS Unit:	Weather:

NO.	SPECIES	SEX	FREQ	SAMPLE MEASUREMENTS* (in mm)							REMARKS
				TL	TV	WC	B	G	T	Wt	
001	M. spirogma	M									
002	C. brachyotis	F									
003	C. brachyotis	F									
004	09/25/2023										
005	Oriental dwarf kingfisher										
006	R. andersoni	F									
007	P. jayori	M									
008	C. brachyotis	M									
009	C. brachyotis	M									
010	Bar-bellied cuckoo-shrike										
011	C. brachyotis	M									
012											
013	09/26/2023										
014	P. jayori	M									
015	C. brachyotis	F									
016	P. jayori	M									
017											
018	09/27/2023										
019	P. jayori	F									
020											
021											
022											
023											
024											
025											
026											
027											
028											
029											
030											

*Legend: TL - Total length, TV - Tail-vent length, WC - Wing cord, B - Bill or culmen length, G - Width of gape, T - Tarsus length, Wt - Body weight (in grams)

M3

Annex 6.15. Field data sheet for bird mistnetting

Protected Area: <u>start</u> <u>end</u>		Date: <u>03/24/2023</u>	Time: <u>5:16 PM</u>
Plot No. ----	Quadrat No. -----	Coordinates: N <u>13 25 29.04</u> E <u>120 21 00.31</u>	Observer(s): <u>DENR-PHO, TCP, MATAPAT</u>
	Transect No. -----	Elevation: <u>322</u> masl	Vegetation Type: <u>secondary growth</u> <u>disturb</u>
		GPS Unit: <u>Garmin GPS MAP 245</u>	Weather:

NO.	SPECIES	SEX	FREQ	SAMPLE MEASUREMENTS* (in mm)							REMARKS
				TL	TV	WC	B	G	T	Wt	
001	<u>03/24/2023</u>										
002	<u>03/25/2023</u>										
003	<u>Oriental dwarf kingfisher</u>										<u>scaped</u>
004	<u>03/26/2023</u>										
005	<u>Cynopterus brachyotis</u>										
006											
007	<u>03/27/2023</u>										
008	<u>Cynopterus brachyotis</u>										
009											
010											
011											
012											
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*Legend. TL - Total length, TV - Tail-vent length, WC - Wing cord, B - Bill or culmen length, G - Width of gape, T - Tarsus length, Wt - Body weight (in grams)

Annex 6.15. Field data sheet for bird mistnetting

Protected Area: <u>skat</u> <u>end</u>		Date: <u>03/24/2023</u>	Time: <u>5:44 PM</u>
Plot No. ----	Quadrat No. ----	Coordinates: N <u>13 25 21.92</u> <u>13 25 21.50</u> E <u>120 20 37.79</u> <u>120 21 00.01</u>	Observer(s): <u>DENR-DAMB, TCP, UST MATAPAT</u>
	Transect No. ----	Elevation: masl <u>323</u> <u>324</u>	Vegetation Type: <u>secondary growth</u> <u>disturb</u> <u>5m away from stream</u>
GPS Unit: <u>GARMIN GPSMAP 645</u>			Weather:

NO.	SPECIES	SEX	FREQ	SAMPLE MEASUREMENTS* (in mm)							REMARKS
				TL	TV	WC	B	G	T	Wt	
001	<u>03/24/2023</u> <u>H. pygmaeus</u>										<u>scope net</u>
002	<u>N. mindanensis</u>										
003											
004	<u>03/25/2023</u>										
005											
006	<u>03/26/2023</u>										
007											
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*Legend: TL - Total length, TV - Tail-vent length, WC - Wing cord, B - Bill or culmen length, G - Width of gape, T - Tarsus length, Wt - Body weight (in grams)

MS

Annex 6.15. Field data sheet for bird mistnetting

Protected Area:		start	end	Date: 03/25/2021	Time: 5:41 PM
Plot No.	Quadrat No.	Coordinates:		Observer(s):	
	----	N 15 25 19 10 10 25 18 99		CENR-DAMI, TCR, USI MARGAT	
	----	E 120 21 04 09 120 21 04 23			
---	Transect No.	Elevation:		Vegetation Type:	
		masl 355 357		secondary growth disturb	
----	----	GPS Unit: GARMIN GPS MAP 645		Weather:	

NO.	SPECIES	SEX	FREQ	SAMPLE MEASUREMENTS*								REMARKS
				(in mm)								
				TL	TV	WC	B	G	T	Wt		
001												
002	03/26/2021											
003	PH bulbul											
004												
005												
006												
007												
008												
009												
010												
011												
012												
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*Legend: TL - Total length, TV - Tail-vent length, WC - Wing cord, B - Bill or culmen length, G - Width of gape, T - Tarsus length, Wt - Body weight (in grams)

Annex 6.18. Field data sheet for bat mistnetting

Protected Area: start end		Date: 03/25/2023	Time: 6:31 PM
Plot No. ----	Quadrat No. ----	Coordinates: N 15 23 24 15 15 25 24 36 E 120 21 09 36 120 21 09 31	Observer(s): DENIE -MMD, TCF, VST MARIAPAY
	Transect No. ----	Elevation: masl 315 360	Vegetation Type: river bank
		GPS Unit: Garmin Gpx map 04.5	

NO.	SPECIES	SEX	AGE	FREQ	SAMPLE MEASUREMENTS* (in mm)						REMARKS
					HBL	TL	EL	FL	HL	Wt	
N	03/25/2022										
	P. jageri										
	002										
	003										
	03/26/2023										
	P. jageri	M									
M	P. jageri	M									
	P. jageri	M									
	P. jageri	F									
N	008										
	Myotis blue-elazhar										
	009										
	03/27/2023										
	P. jageri	M									
	P. jageri	F									
	012										
	013										
	Common Eared dove										
	014										
	C. brachyoti										
	015										
	016										
	017										
	018										
	019										
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	029										
	030										

*Legend: HBL - Head-to-body length, TL - Tail length, EL - Ear length, FA - Forearm length, HL - Hindfoot length, Wt - Body weight (in grams)

Protected Area:			Date:	
Plot No.	Quadrat No.	Coordinates:	Observer(s):	
	-----	N E	DEHR-PAMO, TCP, UST MATAPAT	
----	Transect No.	Elevation: masl	Vegetation Type:	
	-----	GPS Unit:	Weather:	
NO.	NAME OF TAXA	SPECIES CODE	ARTHROPOD CLASS	FREQUENCY
001	Cicada	unidentified		3
002	Shrimp	unidentified		1
003	Dragonfly (2)	unidentified		1
004	Centipede	unidentified		2
005	Insect	unidentified		1
006	Moth	unidentified		1
007	Water Spider	unidentified		2
008	Dragonfly (2)	unidentified		1
009	Dragonfly (3)	unidentified		1
010	Butterfly (3)	unidentified		1
011	Butterfly (2)	unidentified		1
012	Butterfly (3)	unidentified		1
013	Insect	unidentified		1
014	Butterfly (4)	unidentified		1
015	Dragonfly (4)	unidentified		1
016				
017				
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*Remarks may include: Body size (small, medium, big, large); body color, body shape (pointed, curve, straight, etc.); distinctive markings (body stripe, body spots, underparts, etc), photo number, other observations

Protected Area:			
Plot No. ----	Quadrat No.	Year	We

---	Transect No.	El	GP

Starting Point:		N	
		E	
NO.	SPECIES		
001			
002			
003			
004			
005			
006			
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009			
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*SVL - Snout-to-vent
- Forefoot length, Wt -

SKYNET

Annex 6.12. Field data sheet for simple line transect count for birds

Protected Area:			Date: 02/24/2023	Time:
Plot No. ---	Quadrat No. ----	Vegetation Type:	Observer(s):	
		Weather:		
	Transect No. ----	Elevation: masl		
		GPS Unit:		
Transect Coordinates				Transect Length: ----- m
Starting Point:	N E	Endpoint:	N E	

NO.	SPECIES	HEARD and/or SEEN	FREQ	REMARKS
001	02/24/2023			
002	Rhinoceros (or better)			
003	Dolichoceros			
004				
005	02/25/2023			
006	M. minimus F			
007				
008				
009				
010				
011				
012				
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Annex 6.19. Field data sheet for small non-volant mammal trapping

Protected Area:			Date: 03/26/2023	Time:
Plot No. ----	Quadrat No. -----	Coordinates: N E	Observer(s): DENR PAMO, TCP, UST KATAPAT	
	Transect No. -----	Elevation: masl	Vegetation Type:	
		GPS Unit:	Weather:	

NO.	SPECIES	SEX	AGE	FREQ	SAMPLE MEASUREMENTS* (in mm)					REMARKS
					HBL	TL	EL	HL	Wt	
001	Red									
002										
003										
004										
005										
006										
007										
008										
009										
010										
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*Legend: HBL - Head-to-body length, TL - Tail length, EL - Ear length, HL - Hindfoot length, Wt - Weight in grams

Annex 6.19. Field data sheet for small non-volant mammal trapping

Protected Area:			Date: 6/27/2023	Time:
Plot No. ---	Quadrat No. ----	Coordinates: N E	Observer(s): DENR - RAMON, T. P. VST MATAPAT	
	Transect No. ----	Elevation: masl	Vegetation Type:	
		GPS Unit:	Weather:	

NO.	SPECIES	SEX	AGE	FREQ	SAMPLE MEASUREMENTS* (in mm)					REMARKS
					HBL	TL	EL	HL	Wt	
001	Rat			(2)						
002										
003										
004										
005										
006										
007										
008										
009										
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*Legend: HBL - Head-to-body length, TL - Tail length, EL - Ear length, HL - Hindfoot length, Wt - Weight in grams