

Republic of the Philippines

Department of Environment and Natural Resources MIMAROPA Region

PROVINCIAL ENVIRONMENT AND NATURAL RESOURCES OFFICE

DENR MIMAROPA RECORDS SECTION RECENVED

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 terrestial 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.

TSD-CDS4/26/2023 Copy furnished:

1. Planning Section

2. File



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)

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 midorensis). 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

TIME.

SANTOS, MPA

National Road, Brgy.Sto. Niño, Sablayan, Occidental Mindoro 7 For all: cenrosablayan@denr.gov.ph

2-26

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

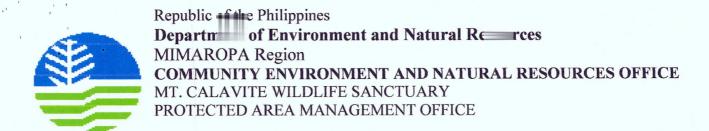
species.Moreover, the record of *D. quadrasi* within the area was new. A species of Rat snake was the only snake species recorded.

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 Coleto (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 Emperial Pigeon (Ducula aenea), Common Emerald Pigeon (Chalcophaps indica), Brown Shrike (Lanius cristatus), Common Koel (Eudynamys scolopaceus), 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 tanezumi*). 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.

3rd Floor, Espejo Bldg. DENR Compound, Mamburao, Occidental Mindoro E-mail: mcws.denr@gmail.com



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:

IOHN BENEDICK O. PERIDA

Checked and reviewed:

JOSIE R. CORPUZ
ECOMS I/Technical Support Staff

ARLENE V. FRANCISCO
Protected Area Superintendent



Republic file Philippines

Departm of Environment and Natural Records

MIMAROPA Region

COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

MT. CALAVITE WILDLIFE SANCTUARY PROTECTED AREA MANAGEMENT OFFICE

Table 1. Checklist of amphibians and reptiles recorded in MCWS

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

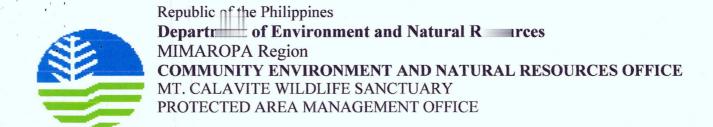
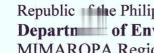




Figure 1. Herpetofaunal species recorded in the MCWS. Top (left to right): Platymantis currogatus, Limnonectes acanthi, Leptobrachium mangyanorum; Bottom (left to right): Pulchrana mangyanum, Draco Volans, Cyrtodactylus philippinicus



Republic of the Philippines Departn of Environment and Natural R rces

MIMAROPA Region

COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

MT. CALAVITE WILDLIFE SANCTUARY PROTECTED AREA MANAGEMENT OFFICE

Table 2 Checklist of hirds recorded in the MCWS

			Residency	Habitat		servation	
No.	Species	Common name	status	association	IUCN 2022-2	CITES	DAO 2019-09
1	Ceyx erithaca	Oriental dwarf kingfisher	Resident	Forested & open areas	Least Concer n	Not listed	Not listed
2	Coracina striata	Bar-belled cuckooshrike	Resident	Forested & open areas	Least Concer n	Not listed	Not listed
3	Hypsipetes philippinus	Philippine bulbul	Philippine endemic	Forested areas	Least Concer n	Not listed	Not listed
4	Cyornis rufigastra	Mangrove blue- flycatcher	Resident	Forested & open areas	Least Concer n	Not listed	Not listed
5	Prioniturus mindorensis	Mindoro racket- tail	Mindoro endemic	Forested & open areas	Vulner able	Not listed	Endanger ed
6	Dicrurus balicassius	Balicassiao	Philippine endemic	Forested areas	Least Concer n	Not listed	Not listed
7	Chalcophaps indica	Common emerald dove	Native	Forested & open areas	Least Concer n	Not listed	Not listed
8	Ninox mindorensis	Mindoro boobook	Mindoro endemic	Forested areas	Vulner able	II	Vulnerab le
9	Centropus bengalensis	Lesser Coucal	Native	Forested & open areas	Least Concer n	Not listed	Not listed
10	Phapitreon leucotis	White Eared Brown Dove	Philippine endemic	Forested areas	Not listed	Not listed	Not listed
11	Ducula aenea	Green Emperial Pigeon	Resident Forested areas		Near threate ned	Not listed	Not listed
12	Corvus macrorhynchos	Large Billed Crow	Resident	Forested & open areas	Lest concern	Not listed	Not listed
13	Sarcops calvus	Coleto	Near endemic	Forested areas	Least concern	Not listed	Not listed
14	Gallus gallus	Red-jungle Fowl	Resident	Forested areas	Least Concer n	Not listed	Not listed
15	Penelopides mindorensis	Mindoro Tarictic Hornbill	Mindoro endemic	Forested areas	Endang ered	II	Endanger ed
16	Dryocopus javensis	White Bellied Wood Pecker	Resident	Forested areas	Lest concern	I	Not listed
17	Dicaeum retrocinctum	Scarlet Flower Pecker	Mindoro endemic	Forested & open areas	Vulner able	Not listed	Not listed
18	Lanius cristatus	Brown Shrike	Migrant	Forested & open areas	Least concern	Not listed	Not listed
19	Oriolus chinensis	Black Naped Oriole	Resident	Forested & open areas	Lest concern	Not listed	Not listed

E-mail: mcws.denr@gmail.com



Republic of the Philippines

Departn of Environment and Natural R rces

MIMAROPA Region

COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

MT. CALAVITE WILDLIFE SANCTUARY PROTECTED AREA MANAGEMENT OFFICE

20	Eudynamys scolopaceus	Common Koel	Resident	Forested & open areas	Least concern	Not listed	Not listed
21	Dicaeum	Pygmy Flower	Philippine	Forested	Least	Not	Not
	рудтаеит	Pecker	endemic	areas	concern	listed	listed
22	Motacilla	Eastern Yellow	Resident	Forested	Least	Not	Not
22	tschutschensis	Wagtail	Resident	areas	concern	listed	listed
22	T	Pompadour Green	Resident	Forested	Least	Not	Not
23	Treron pompadora	Pigeon	Resident	areas	concern	listed	listed
24	Microhierax	Philippine	Philippine	Forested	Least	II	Not
24	erythrogenys	Falconet	endemic	areas	concern	11	listed
25	Macropygia	Reddish Cuckoo	Davidant	Forested	Least	Not	Not
25	phasianella	Dove	Resident	areas	concern	listed	listed
26	Todiramphus	White Collared	Resident	Forested &	Least	Not	Not
20	chloris	Kingfisher	Resident	open areas	concern	listed	listed
27	Pitta sordida	Hooded Pitta	Resident	Forested &	Least	Not	Not
21	Pilia soralaa	Hooded Pilla	Resident	open areas	concern	listed	listed
28	Carilousia halamilua	Philippine	Philippine	Forested	Least	II	Not
20	Spilornis holospilus	Serprnt-Eagle	endemic	areas	concern	11	listed
29	-	Koel	-	-	-	-	-
30	-	Parrot	-	-	-	-	-
31	-	Seloy	_	-	-	-	-
32	-	Salaksakan	_	Ī-	-	-	_



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



Republic of the Philippines

Departn of Environment and Natural R rces

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

			Residency	Habitat		servation	status
No.	Species	Common name	status	association	IUCN 2022-2	CITES	DAO 2019-09
	Class Chiroptera						
1	Ptenochirus jagori	jagori Musky fruit bat		Common in secondary forest, often present in cropland 2and urban p3arks and residential areas	Least Concer n	Not listed	Not listed
2	Cynopterus brachyotis	Common short- nosed fruit bat	Native	Agricultural areas; Disturbed forests	Least Concer n	Not listed	Not listed
3	Hipposideros pygmaeus	Philippine pygmy roundleaf bat	Philippine endemic	ppine Caves in or I		Not listed	Not listed
4	Rousettus amplexicaudatus	Geoffroy's rousette	Native	Agricultural areas; Disturbed forests	Least Concer n	Not listed	Not listed
5	Macroglossus minimus	Long-tongued nectar bat	Native	Urban coastal areas to denser forested areas	Least Concer n	Not listed	Not listed
6	Megaderma spasma	Lesser false vampire bat	Native	Hollow trees, caves, buildings and wet areas	Least Concer n	Not listed	Not listed
	Class Carnivora						
7	Rattus tanezumi Oriental house rat		Introduced; invasive	Agricultural areas; Disturbed forests	Least Concer n	Not listed	Not listed
	Order Primates						
8	Macaca fascicularis	Long-tailed macaque	Native	Forested areas	Endang ered	II	Not listed
	Order Artiodactyla	F	T	T			
9	Sus oliveri	Mindoro warty pig	Mindoro endemic	Forested areas	Vulner able	Not listed	Endanger ed





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

Prote	ected Area	:		Date:	03/24/2023	5							
	Ounderst	Coordinate	S:	Observe	er(s):								
	Quadrat	N		561.773, 5073	a long propagation of the	CP, LST M	AMARA	0.71					
	No	E		Sect Speci	New Fred Mills	on y h man 6 y .		1					
No.	Transect	Elevation: masl		Vegetation Type: Perver benk									
	No	GPS Unit:		Weathe	r:								
	CLASS		DICTOIL	UTION	DECODDING	LIADITAT	DODUI	ATION ST	ATHE				
NO.	ORDER		DISTRIE		RECORDING METHOD	HABITAT ASSOCIATION	PUPUL	AIIUN SI	AIUS				
	SPEC	CIES	SIAI	US	MEINUU	ASSOCIATION	IUCN	CITES	PWA				
001	Fr. Curu	nortes											
002	1	omti											
003	Beer of Market	APPLICATION LAW!			-								
004	M. Con	Nage 2											
005		19) YEMA											
006	1 . 9.		(2)										
007													
008	9. vol	ons											
009	6.00	MACO.	(5)										
010	*												
011													
012				Microsophic St. 40									
013									1				
014													
015									-				
016	1								1				
017	1								-				
018	1								-				
019	1								-				
020	+	1 mar.							-				
021	1	Sec. 199						-	-				
022	-								+				
023	7			and the distribution of the second					+				
024			-	***	-	-		+	-				
025							-	+	+				
026	-		-	ta isang baharap na antionapona		-		-	-				
027				0 A					-				
028			-										
029			1			<u> </u>		-	-				
030						-							
031	-	***************************************	-		-			-	-				
032			1			1							

Prote	ected Area	1:	A Caraba Later Association of Programmer	Date: 0	3/25/2028									
	0	Coordinate	S:	Observe	er(s):									
D	Quadrat	N		in the second	NET CAMO TO	F, UST M	ATAPA	***						
	No	E				*								
No.	Toopeast	Elevation:		Vegetation Type: Reverbook										
	Transect	masl												
	NU	GPS Unit:		Weathe	Weather:									
	CLASS		DISTRIE	HITION	RECORDING	HABITAT	POPUL	ATION ST	SIITA					
NO.	ORDER		STAT		METHOD	ASSOCIATION								
	SPEC	CIES	317		FILITIOD	ASSOCIATION	IUCN	CITES	PWA					
001	Linear	MUNINE NAME OF THE PARTY OF THE	(2)											
002	1	and in	(8)											
003	P. do	colis	(2)											
004	-	TANK TO THE TANK THE	(1)											
005														
006	The state of the s	kko	(1)											
007														
008	The state of the s	wher	(1)											
009														
010														
011				- Maria Carlo Constant of the	<u> </u>				-					
012	+								-					
013	1								\vdash					
014	+							-	-					
015								-	-					
016	+							-	+					
017	+							-						
018					-				+					
019			-						+					
020		200 mg	-						+					
021									-					
022						_			-					
023							-		-					
024														
025	7					1		-	+					
028		15			 			-	-					
027									+					
028								-	+					
029			-					+	+					
030	7		-			-	-	-	-					
031		and the second s	-			-	-		+					
032	2					<u> </u>		1						

Prote	ected Area	l:		Date: 6	00/26/2023									
	Quadrat	Coordinate	S:	Observe										
DI-I	No	N		TOE !	ND-PAMTI	TOT UST	MATA	2AT						
	NO	E		3, 2	177									
No.	Transect	Elevation: masl		Vegetation Type: Riverbook										
	No	GPS Unit:		Weathe	Weather:									
	CLASS		DISTRIE	DITTION	RECORDING	HABITAT	POPULATION STATUS							
NO.	ORDER		STA		METHOD	ASSOCIATION								
	SPE	CIES	OIA		11211100	7.00000711011	IUCN	CITES	PWA					
001	Par Whi	Ai cons mole	(1)											
002	340.	Mirrory	(2)											
003		PINICUS	(3)	**********										
004	P do			***************************************										
005	L. G	tomber.	(1)											
006	P. Cu	rugatus	(1)											
007	1	MUSKL	(2)											
008		VINSONIA (NAV.)	(2)						-					
009	Q. res	Ne yarraya	(2)											
010		*												
011									-					
012														
013									-					
014	-								-					
015								-	-					
016								-	-					
017	1							-	-					
018	-								+					
019	-							-	+					
020	1	96.5 m2	-					-	+					
021	-		1					+	+					
022				·····				-	-					
023	7				-			-	+					
024					-	-		+	+					
025				************					-					
028		-	-					1	-					
027		was a contract to the contract of the contract					1		+					
028									+					
029							-	+	+					
030							-	+	+					
031				*******************************		-	-	+						
032	2	***************************************	<u> </u>				1							

Prote	ected Area	1:		Date:	03/21/20	23							
	Quadrat	Coordinate	S:	Observe	er(s):								
Plot	No	N		0.5	NRPAMO,	TCF , US	THAT	41747					
No.		E											
1	Transect	Elevation: masl		Vegetation Type: River Lemb									
	No	GPS Unit:		Weathe	Γ:								
NO.	CLASS ORDER		DISTRIE	BUTION RECORDING		HABITAT	POPUL	ATION ST	ATUS				
140.	SPE		STAT	TUS	METHOD	ASSOCIATION	IUCN	CITES	PWA				
001	TULO		(4))	 		10011	OTTEG	1				
002			(2										
003		P. Morealis H. Monthusis)									
004	140	F. LOUWENS											
005	•		(i)										
006	W. Carlo		(1)										
007													
008													
009								- 22					
010													
011						2							
012													
013													
014		***											
015	1							-	-				
016	1					ļ			-				
017									-				
018	1		-						+				
019	-								+				
020		egillar	-			-			+				
021	1		-	Andrew Constitution of the									
022									+				
023									+				
025	1				+				1				
026				Maria Cara Cara Cara Cara Cara Cara Cara				†					
027													
028				-									
029		Assessment of the second secon											
030									1				
031			1										
032	-		1										
002	- }		1				1						

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

Prote	cted Area:		Date: 63/27/2023	Time:				
Plot	Quadrat No.	Coordinates: N E	Observer(s): DENR-PAMO, TCP, UST MATAPAT					
No.	Transect No.	Elevation: masl	Vegetation Type:					
		GPS Unit:	Weather:					

NO.	SPECIES	SEX	AGE	FREQ	SAME		EASU n mm		NTS*	REMARKS
NU.	SPECIES	SEX	AGE	FREU	HBL	TL	EL	HL	Wt	REMARKS
001	Rat			(2)						
002										
003										
004										
005										
006										
007										
008										
009				100						
010										
011										
012										
013										
014										
015										
016	1									
017										
018										
019										
020							ļ			
021										
022										
023									-	
024						-	ļ	ļ	4	
025									-	
026										
027										
028							<u></u>			

^{*}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

Protec	cted Area:		Date: Society Time: 5 15 PM
	Quadrat No.	Coordinates:	Observer(s):
Plot -		N E	DENR PAMO, TOP, UST MATABAT
No.	Transect No.	Elevation: masl	Vegetation Type: Offer gressland
		GPS Unit:	Weather:

				SA	MPL	E ME	EASU	JREN	MEN.	TS*	
NO.	SPECIES	SEX	FREQ			(ir	mr	n)	,		REMARKS
	05 km / 200			TL	TV	WC	В	G	T	Wt	
001	C. brachyolis	M									
002	C hearbacks	M								1	
003	Control of the second	M									
004	V Jegori	-									
005	XX 9*										
006	03/25/2023										
007	C bradwohi	M						_	-		
800	C beechartes	1000				<u> </u>			-		
009	55/26/2025			_					-		
010	P Jagari	Special Special	<u> </u>	1	-	-		-	-		
011	P. jagori	\$200.			_	-			-		
012	3 3				_			-	-	-	
013	03/27/2023			-		-	-		-	1-1	
014	C brackatis	M				-		-	-	-	
015	C larestyphic	Ann.		-	-	-		-	-	-	
016			<u> </u>		-	-	-	-	-	-	
017			ļ		_			-	+-	-	
018				_	-	-	_	-	-	-	
019					1	-	_	-	-	-	
020							-	-	-		
021				_	-	-	-	-	-	-	
022					-	-	-	-	-	-	
023						-		-	-		
024						-		-	-		
025					_		-				
026	A						-				
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)

Annex 6.15. Field data sheet for bird mistnetting

M

10

MA

pd

Prote	cted Area:		Date: O states Time:
Plot	Quadrat No.	Coordinates: N E	Observer(s): DENR RAMO, TCP, UST NATATAT
No.	Transect No. Elevation:		Vegetation Type:
		GPS Unit:	Weather:

		······································									
			SA	MPL	E ME	EAS	JREN	1EN	TS*		
NO.	SPECIES	SEX	FREQ			(ir	mr	n)			REMARKS
	C3/29/2028			TL	TV	WC	В	G	T	Wt	
001	M. Spacina	M				1					
002	C brodyptio	elec- Moss-									
003	C brechicks	green.									ALL AND A SHARE AN
004	03/38 /2023										
005	Constant August Line	risher									
006		Anc Fr									
007	P. Logoti	14	· · · · · · · · · · · · · · · · · · ·								
008	C brookschie	M									
009	C bradigets	14			_						
010	Ser-belled zacks	Shrike									
011	C. brackwates	M			_						
012									-	1_1	
013	123/22/828				_			_			
014	2 3000	m.A			_			<u> </u>			
015	C brokensts	Marie Marie									
016	P. Jageri	M			_			_			
017					1_			_	_		
018					1_	-	-	-	-	-	
019	The state of the s	Man. Marian			_		-	-	-		
020									_		
021	Qual year							-	_		
022	!								1		
023	3						_		_	-	
024					1_						
025	5								_		
026	3								1		
027	7										
028	3										
029		j.									
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

114

Annex 6.15 Field data sheet for bird mistnetting

Protec	cted Area:	SA:	cud	Date: 03/24/2023 Ti	me: 5:15PM			
		Coordinates:	The state of the s	Observer(s):				
Plot	Quadrat No.	N 13 25 24 04	10 25 24 12	1 7 1 1 2 - ESS	OTCP, MATAPAT			
		E 126 21 (225)	120 21 00 80		V/1			
No.		Elevation: 322	321	Vacatation Type.	secondary growth			
	Transect No.	masl		Vegetation Type:				
		GPS Unit:	in the sale	Weather:				

			5050	SA	MPL	TS*	DEMARKS					
NO.	SPECIES	SEX	FREQ	-	771.1		mr		-	11411	REMARKS	
	08/29/2020	-		TL	TV	WC	В	G	T	Wt	and the second s	
001	03/28/2025			-						-		
002	Oriental dear 1	char whe		-						++	200hed	
003										+-+		
004	03/26/2023				-					+-+	AND THE RESERVE AND THE PARTY OF THE PARTY O	
005	Cyredion's Dis	A yet is		-	-	-		_		+-+		
006	*			-	-	-		-	-	+-+		
007	05/2n (1882)			-	-	-		-	-	++		
800	Cymophrus bro	chyphis		-	-	-		-	-	++		
009				+-	-	-		-	-	++	<u> </u>	
010				+	-	-	-	-	+-	+++		
011				+-	-		-	-	-	+		
012					-	-	-	-	-	++		
013				-	-	-	-	\vdash	┼	+		
014				-	-	-	-	╀-	-	+		
015				-	-	-	-	-	1	-		
016				_	_	-	-	-	-	1-1		
017					-	-	-	-	+-	-		
018				+	-	-	-	-	+-	-		
019				-	+-	-	-	+-	+	-		
020				-	-	-	-	-	-			
021			-	-	-	-	-	-	-	+		
022						-	-	-	-	4-1		
023							-	-	1			
024							-	+	4	-		
025	×					-	-	-	-	-		
026							-		-			
027							_		1			
028							1					
029								1	1			
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)

(1)()

· M1

Annex 6.15. Field data sheet for bird mistnetting

Protec	ted Area:	Crost end	Date: 03/24/203 Time: 5:44PM				
	O dood No	Coordinates:	Observer(s):				
Plot	Quadrat No.	N 15 25 21 92 16 25 21 50	DEMR-MAN, TOP, UST MATAPAT				
No.	Transect No.	Elevation: masl 323 324	Vegetation Type: disturb				
		GPS Unit: GARAN TOTAL	F 5				

			Charles C	2							
NO.	SPECIES	SEX	FREQ	SA	MPL	E MI	EASI n mr		1EN	TS*	REMARKS
NU.	,	SEA	TREU	TL	TV	WC		G	T	Wt	KELIANNO
	09/24/2020			11	IV	VVC	D	U	-	AAF	
001	H- pygmeus			+							Same Met
002	N. Windowskia			-							
003				-							
004	53/20/2029			-							
005				-		-					
006	03/26/2023			-	-			_		-	
007				-	-						
008				-		-		-	-	-	
009				-		ļ			-		
010				 	-			-	-		
011				1				_			
012					_			ļ	<u> </u>		
013					_	-		_	<u> </u>	-	
014						ļ	-	_	-		
015							-	_	_	-	
016										-	
017					_				_		
018								_			
019					_				_		
020											
021	0.5										
022											
023											
024					1		T				
025											
026											
027											
028					1						
029				1	1	1		1			
030				1		1	1	1	1		
030	1										

^{*}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)

Pol

Annex 6.15. Field data sheet for bird mistnetting

Protec	ted Area:	alexan even	Date: 63/25/29 Time: 591 PM					
	0 1 1 1	Coordinates:	Observer(s):					
1	Quadrat No.	N 10 25 19 10 10 25 18 99	OFFIR-DAME, TOP, UST MAKAGAT					
Plot		E 12021 0409 120 21 04 2						
No.	Transect No.	Elevation: masl 355 357	Vegetation Type: Secondary growth					
		GPS Unit:	Weather:					

NO	SPECIES	SEX	FREQ	SA	MPL	E ME	EASI mr		1EN	TS*	REMARKS	
NO.	03/25/2625	SEA	rniu	TL TV WC B G T Wt						Wt		
001	0372372423			'-	1							
002	Galout seas											
003	The bullout											
004												
005							, v					
006												
007												
008												
009												
010		1								1-1		
011					_							
012					_					1-1		
013					_				_	1		
014					_			_	_			
015					_		<u> </u>	1	-			
016					_				-	-		
017					_		-	1_	-	1-1		
018			ļ		-	-	-	-	-	-		
019					-	-	-	-	-	1		
020							-	-	-	-		
021					_		1		-			
022							_	_	_			
023								_	_	_		
024					\perp		1	_	_			
025							_	_	_			
026								1	-			
027												
028				1								
029							1	1	-			
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

Me

Annex 6.18. Field data sheet for bat mistnetting

Prote	cted Area:	4000	to the A	Date: 03/25/2023 Time: 6:31 PM					
	Quadrat No	Coordinates:	AC CONTRACTOR OF THE CONTRACTO	Observer(s):					
Plot	Quadrat No.	N 15 25 24 15	18 25 29 50	SENSE -PHUD, TCF, UST MOTADAY					
		E 120 21 0436	12 20 12 021	25.545					
No.	_	Elevation:	SST STATE OF THE S	Vegetation Type:					
	Transect No.	masl 315	1 040	vegetation type:					
	Access made access mades	GPS Unit:	in Color	Weather:					

	NO.	SPECIES	SEX	AGE	FREO	SAMPLE MEASUREMENTS* (in mm)			REMARKS			
		03/25/2029				HBL	TL	EL	FL	HL	Wt	
	001	P Color										and the second s
T	002											and the state of t
	003	03126/2028										
Service P	004	Phospi	W									
000000000000000000000000000000000000000	005	Parani	M									
See and the second	006	C. Carrier	M									
il de la constant de	007		1									
1-	008	Manage blue-els	etaker	,								
	009	03/27/2023										
1	010	Property	M									
1	011	7 666	Maria Pri						-			
	012											
	013	COMMON EVERYLY	dore									
	014	C Wachysti										
	015											
	016	1										
	017											
	018											
	019											
	020											
	021				**********							
	022								<u> </u>			
	023											
	024											
	025											
	026				ale all the country of the country o							
	027			- ecoption	material superior control of the state of th					-		
-	028											
	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)

rrote	cted Area:	T		ate:	
DI 1	Quadrat No.	Coordinates N	: 01	oserver(s):	
Plot No.	ATT 800 (FE ALIS	E		DEHR-PAMU, TOP	LAPATAM TOU,
	Transect No.	Elevation:	masl Ve	getation Type:	
		GPS Unit:	W	eather:	
NO.	NAME OF TA	XA SPECI	ES CODE	ARTHROPOD CLASS	FREDIENCY
001	Cicada	unide	whited		3
002	Shrimp	unid	entired		1
003	Dragonely	(1) unide	ntified		4
004	Centiped	unide	hered		2
005	Insect	unide	History		
006	Moth	unide	stipied	and the second	1
007	Water Stide	er unide	whicierl	Operation of the Control of the Cont	2
800	Pragonely (- 1	eticion	- Control of the Cont	1
009	Dragonsh (4	whicied	and the second s	Language Company
010		1) unider	,	and the state of t	1
011	Butter = 6		divide		1
012	Buttershi 1	3) unider			1
013	Insect	Line de la			1
014	Butterely	1 2	stirite		1 Assistance
015	Dragonth (House Ho		
016	3 11				
017				- State of the sta	
018				and the state of t	
019					
020					
021					
022					
023			- Total on Expedition and the office provided the Asset		
024					and the second of the second o
025					
026					
027					
028					

*Remarks	may	include:	Body	size	(small	l, medium,	big,	large);	body	color	200	
(pointed,	curve,	straight,	etc.);	dist	inctive	markings	(body	stripe,	body	spots.		
parts, etc.), pho	to numbe	r, oth	er ob	servat	ions		,				

2-ntect	ed Area:
	Ouadrat No. Ve
riot	We
.00	Transect No. Elle
Starting	a N
Point:	Ε
NO.	SPECIES
NU.	SPECIES
001	
002	
003	
004	
005	
006	
007	•
008	
009	
010	
011	
012	
013	
014	
015	
016	90.
017	
018	1
019	
020	
021	
022	
023	
024	
025	
026	
027	
028	

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

Prote	cted Area:			Date: 3 21/23 Time	:			
		Vegetation 1	Гуре:	Observer(s):				
Plot	Quadrat No	Weather:						
No.		Elevation:	masl		a supplication of the supp			
	Transect No	GPS Unit:			and the state of t			
			Coordinates		Transect Length:			
C11:	N N		Endociat	N				
Starti	ng Point: E		Endpoint:	<u> </u> E	m			
NO.	SPECIE	S	HEARD and/or SEE	N FREQ	REMARKS			
001	00/24/2000							
002		relian)						
003	Delicessino							
004								
005	05/25/2025							
006	M. Winimus	The state of the s						
007								
008			,					
009		ng ang tang kang kang kang digang kang kang kang kang kang kang kang						
010								
011								
012								
013								
014					***************************************			
015								
016								
017								
018								
019								
020								
021								
022								
023								
024		ESPONENTIAN OF PROPERTY OF THE OTHER PROPERTY OTHER PROPERTY OTHER PROPERTY OF THE OTHER						
025								
026								
027								
028								
029								
030								

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

Prote	cted Area:		Date: 03/25/2029 Time:				
Plot	Quadrat No.	Coordinates: N E	Observer(s): OENR PAMO, TCP, UST KATAPAT				
No.	Transect No.	Elevation: masl	Vegetation Type:				
	mand speed strong strong	GPS Unit:	Weather:				

NO.	SPECIES	SEX	AGE	FREO	SAMPLE MEASUREMENTS* (in mm)				NTS*	REMARKS
110.	01 20120	OLA	7102	71124	HBL	TL	EL	HL	Wt	13 661 17 1111367
001	No.									
002										
003										
004										
005										
006										
007										
800										
009										
010										
011			www.managa.waga.companto.companto.com							
012										
013										
014										
015										
016										
017										
018	\$50.08x									
019										
020										
021										
022										
023										
024										
025										
026					and the same of th					
027	A S									
028					Compression					

^{*}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

Prote	cted Area:		Date: (3/27/2023 Time:					
Plot	Quadrat No.	Coordinates: N E	Observer(s): DENR - PAMO, TOP, UST MATAPAT					
No.	Transect No.	Elevation: masl	Vegetation Type:					
	Name date date	GPS Unit:	Weather:					

NO.	SPECIES	SEX	AGE	SAMPLE MEASUREMENTS* FREQ (in mm)				NTS*	REMARKS	
					HBL	TL	EL	HL	Wt	
001	English Chapter			(2)						
002										
003										
004										
005					ļ					
006										
007										
008										
009										
010										
011										
012										
013										
014										
015										
016										
017										
018	200									
019										
020										
021										
022		100								
023										
024										
025										
026										
027										
028										

^{*}Legend: HBL - Head-to-body length, TL - Tail length, EL - Ear length, HL - Hindfoot length, Wt - Weight in grams