



Republic of the Philippines
Department of Environment and Natural Resources
Provincial Environment and Natural Resources Office
MIMAROPA Region

Bgy. Sta. Monica, Puerto Princesa City, Palawan

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Telfax No. (048) 433-5638 / (048) 433-5638

May 31, 2022

MEMORANDUM

FOR : The Regional Executive Director
DENR MIMAROPA
1515 L&S Bldg., Roxas Blvd.
Ermita, Manila

FROM : The Provincial Environment and
Natural Resources Officer

SUBJECT : **POPULATION COUNT OF FLYING FOXES AT FLAT ISLAND
(PAGBO ISLAND), BRGY. II, ROXAS, PALAWAN**

Forwarded is the memorandum dated May 20, 2022 of CENRO Roxas regarding the conduct of population count of flying foxes at Flat Island (Pagbo), Barangay 2, Roxas, Palawan that serves as **Means of Verification (MOV)** to the target activity under Conservation of threatened species – Flying Fox population count.

Based on the report, a total of one thousand nine hundred eight (1,908) flying foxes were counted at Flat Island (Pagbo Island) in the evening. The population count of said species is very low compared to the first quarter population count of 7,826, possibly due to the damage to their habitat and food sources caused by Typhoon Odette.

The species roosting in the said area are the Large Flying Fox (*Pteropus vampyrus*) that roosts in *Rhizophora apiculata*, *Sonneratia alba*, and *Bruguiera cylindrica*.

Attached are Exit Count Data Sheet, Roost Characteristic Data Sheet, Species Abundance Data Sheet, geo-tagged photographs of the activity, and location map.

For information and record.



FELIZARDO B. CAYATOC

DENR-PALAWAN
PENRO-RECORDS
RELEASED
By _____
Date **JUN 01 2022** 12-13T



Republic of the Philippines
Department of Environment and Natural Resources
Region IV- MIMAROPA
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
Barangay III (Poblacion), Roxas, Palawan
Contact No. 09171606578 / 09175028647
Email address: cenroroxaspalawan@denr.gov.ph

May 20, 2022


MEMORANDUM

FOR : The Provincial Environment and
Natural Resources Officer
Sta. Monica, Puerto Princesa City

FROM : The Community Environment and
Natural Resources Officer
Roxas, Palawan

SUBJECT : **POPULATION COUNT OF FLYING FOXES IN FLAT ISLAND
(PAGBO ISLAND), BGY. II, ROXAS, PALAWAN**


DENR PENRO
PALAWAN RECORDS
RECEIVED

BY: 
DATE: 05-23-2022 22:45/


Respectfully forwarded is the report of Conservation and Development Section of CENRO-Roxas, Palawan re on above mentioned subject in line with the target activity on Population and habitat monitoring of bats (flying foxes).

Attached are the exit count data sheet, roost characteristic data sheet, species abundance data sheet, geotagged photos, and location map.

For information and record.


PABLO I. CRUZ

DENR-CENRO ROXAS
RELEASED
DATE: 25 MAY 2022

BY: 
DOC NO. 2022-05-0759



Republic of the Philippines
Department of Environment and Natural Resources
Region IV- MIMAROPA

COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

Barangay III (Poblacion), Roxas, Palawan

Contact No. 09171606578 / 09175028647

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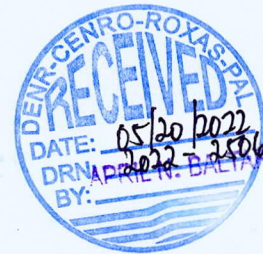
May 20, 2022

MEMORANDUM

FOR : The Community Environment and Natural Resources Officer
Roxas, Palawan

FROM : The Undersigned

SUBJECT : **POPULATION COUNT OF FLYING FOXES IN FLAT ISLAND
(PAGBO ISLAND), BGY. II, ROXAS, PALAWAN**



In compliance to the target activity on Population and habitat monitoring of bats (flying foxes), please be informed that the undersigned conducted a Flying Foxes fly out count at Flat Island (Pagbo Island), Bgy.II, Roxas, Palawan last May 18, 2022.

The fly out started at 6:25 in the evening and the team was able to count a total of 1, 908 flying foxes. A significant difference compared to the first quarter population count of 7, 826 is possibly due to the damages on their habitat and food sources caused by typhoon Odette.

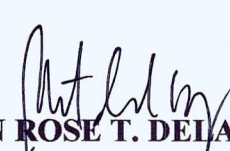
These flying foxes flew to South, West and Southwest directions and most of the dispersed exit pattern was in Southwest direction. The counting was ended at 6:42 in the evening which only lasted for about 17 minutes. The species roosting in this area are Large Flying Fox (*Pteropus Vampyrus*) and they roost in mangrove areas dominated by *Rhizophora apiculata*, *Someratia alba* and *Bruguiera cylindric species*.

Attached are the exit count data sheet, roost characteristic data sheet, species abundance data sheet, geotagged photos, and location map.

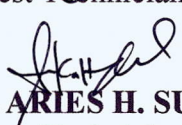
Prepared by:


RINALES L. JUSOS
Forest Technician I


CHUCKIE Y. AGUILOS
Forest Technician I

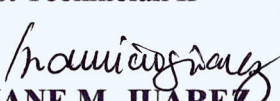

BRYAN ROSE T. DELA CRUZ
Forest Technician I

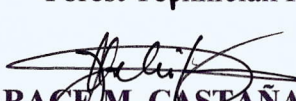

REA C. GARCIA
Forest Technician I


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Forest Technician II


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ECOMS I


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ECOMS I


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Noted by:


CAROLYN A. ESMENDA
SEMS/CDS Chief



Republic of the Philippines
Department of Environment and Natural Resources
Region IV- MIMAROPA

COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

Barangay III (Poblacion), Roxas, Palawan
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Photos by: Jo Annie D. Corvera

BAT COUNT PHILIPPINES- EXIT COUNT DATA SHEET

Counter's Name: <i>Rea C. Garcia, Fatima Jane T. Andres, Grace C. Mahlom, Jo Annie D. Corvera, Rindades L. Jusus, Jane M. Suarez, Karl Aries H. Sumanda, Chuckie Y. Aguilos and Bryan Rose T. Dela Cruz</i>		Date of count: <i>May 18, 2022</i>	Weather: <i>Fair</i>	Location (Island, general area): <i>Flat Island (Pagbo, Barangay II, Roxas, Palawan</i>	
Counter location (description with landmarks): <i>More or less 500 meters from the roosting trees</i>		Counter location (lat/long) and counting direction: <i>Lat 10°16'38" N Long 119°21'1" E</i>		Other counters counting the SAME part of the sky as you: <i>none</i>	
Start time (first bat flying): <i>6:25 P.M</i>	Stop time: <i>6:45 P.M</i>	Reason for stopping (e.g too dark, no more bats): <i>No more bat</i>		Flow of bats at stopping point (e.g. light, medium, heavy): <i>Medium</i>	Number of bats counted in the last minute of the count period: <i>2</i>
Number on your counter at end of count:		Counting interval(s) (e.g. by 1, 10, 50): <i>5</i>		Total number of bats counted (please show math): <i>1, 908</i>	
Reliability of estimate (i.e., problems encountered):		Describe exit pattern (e.g. dispersed, in a tight column): <i>Dispersed</i>		Direction bats were flying (using compass bearing, describing landmarks, etc.) <i>West, South and Southwest directions</i>	

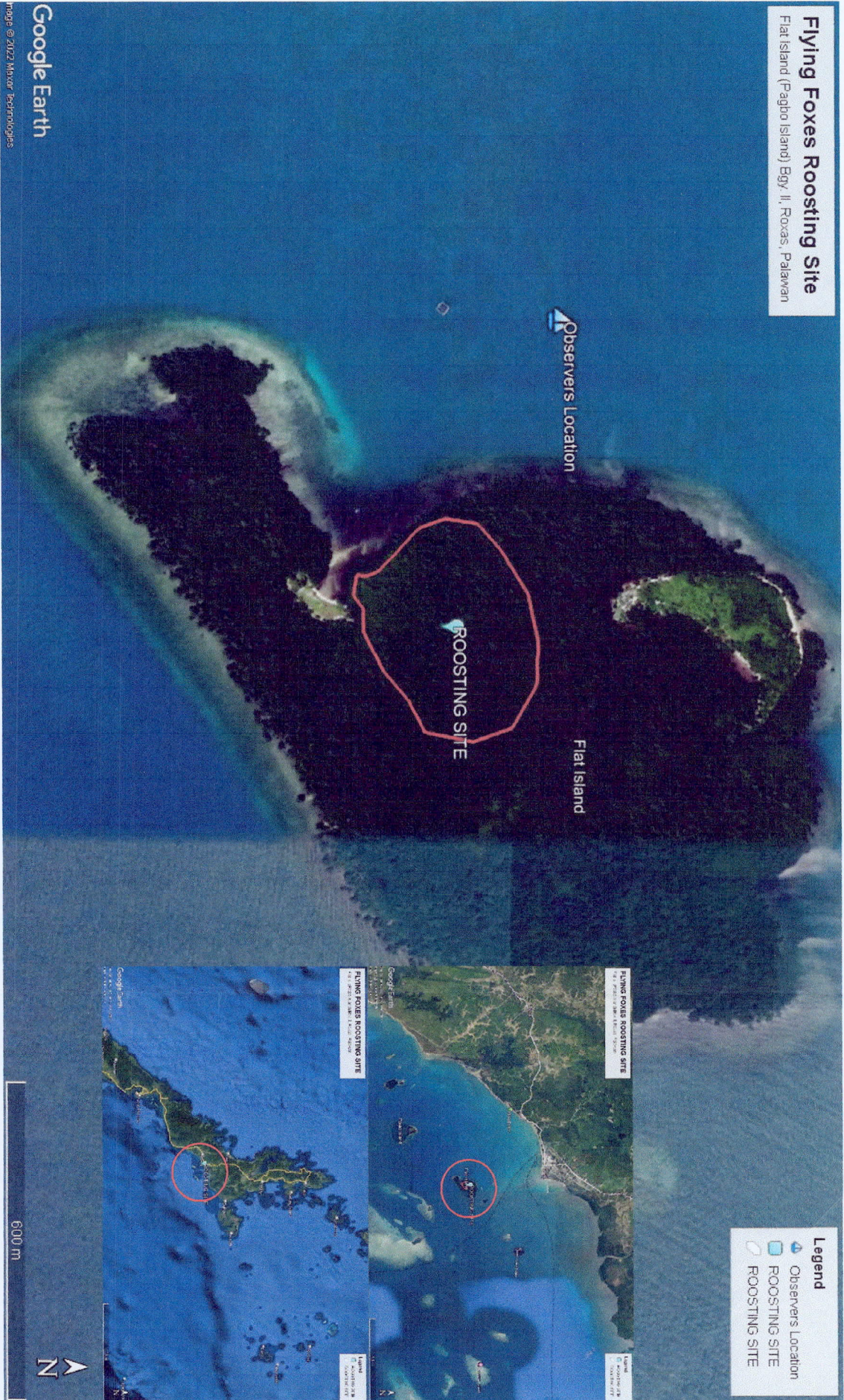
ROOST CHARACTERISTICS DATA SHEET

Roost location (islan, general area): Flat Island (Pagbo), Bgy. II, Roxas, Palawan		Nearest barangay/town: Barangay V(Purao Island), Roxas, Palawan	
How close can the roost be approached: 5 meters		Estimate percentage of roost perimeter which can be accessed: 20%	
Describe roosting pattern (clumped/with satellites?) Clumped		Describe roost trees/vegetation (type, condition, species roosting differences): Rhizophora apiculata, Sonneratia alba and Bruguiera cylindrica	
#trees within roosting area above 5 meters tall:		#dead trees above 5 m:	
Estimate area containing roosting bats:		Topography (e.g. ridge, upper slope, orientation of slope, valley bottom): Low and relatively flat	
Distance to ocean/sea: 80 meters		Human settlements (how close, how many): 1.937 kilometers (Purao Island)	
Travel direction and transit time: South, West, and Southwest directions		Describe bats' reaction to approach of researchers:	
Contacts:		Describe signs of human access (e.g trails, garbage, hunting information): None	
Nearest river is the <i>Barbacan River</i> which is 8.3 kilometers away		Describe bats' reaction to approach of researchers:	
Roost permanent or changing? Temporal pattern of change? Location of alternative roost sites? Permanent		Describe signs of human access (e.g trails, garbage, hunting information): None	

SPECIES ABUNDANCE DATA SHEET

Counter's Name: <i>Rea C. Garcia, Fatima Jane T. Andres, Grace C. Mahlom, Jo Annie D. Corvera, Rinales L. Jusos, Jane M. Juarez, Karl Aries H. Sumandal, Chuchie Y. Aguilos and Bryan Rose T. Dela Cruz</i>				Date and Time of count: <i>May 18, 2022 6:25 PM - 6:42 PM</i>		Roost area (name of area, island): <i>Flat Island (Pagbo, Barangay II, Roxas, Palawan)</i>	
View #/total: <i>1, 908</i>		Observer location lat/long: <i>Lat 10°16'38" N Long 119°21'1" E</i>		View description: <i>Mangrove Forest</i>			
Tree description (sp.)	Distance to tree(m)	Height(m)	Total # of bats	#Acerodon jubbatus	#Pteropus vampyrus	#Pteropus hypomelanus	Comments (reliability, #unidentified, any duplicate counters):
<i>Rhizophora apiculata,</i>							
<i>Sonneratia alba</i>							
<i>Bruguiera cylindrica</i>							


MAP SHOWING THE ROOSTING SITE OF FLYING FOXES AT FLAT IS. (PAGBO IS.) BGY. II, ROXAS, PALAWAN



Digitized by:


CHOCANTE V. AGUILOS
Forest Technician I

Supervised by:


CAROLYN A. ESMENDA
CDS Chief