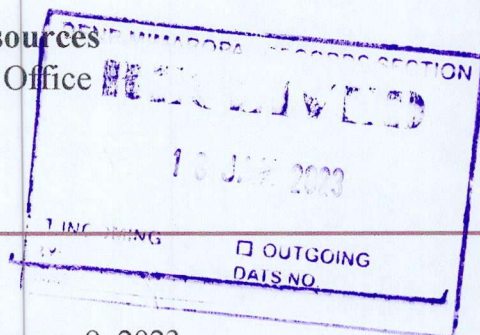




Republic of the Philippines
Department of Environment and Natural Resources
Provincial Environment and Natural Resources Office
Sta. Monica, Puerto Princesa City, Palawan
E-mail: denrpenropalawan@gmail.com
Telfax No. (048) 433-5638



January 9, 2023

MEMORANDUM

FOR : The Regional Executive Director
DENR MIMAROPA Region
1515 DENR By the Bay Building,
Roxas Blvd., Bgy. 668, Ermita, Manila

FROM : The PENR Officer
Puerto Princesa City

SUBJECT : **REPORT ON MANGROVE ASSESSMENT AND MONITORING
OF MALAMPAYA SOUND PROTECTED LANDSCAPE AND
SEASCAPE (MSPLS), TAYTAY-SAN VICENTE, PALAWAN**

Respectfully submitted herewith the report of CENRO Taytay, Palawan in connection with our FY 2022 target under Coastal and Marine Resources Management – Monitoring of Mangroves.

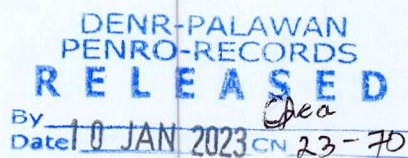
Per report submitted, the PAMO has no baseline data on mangroves, thus the mangrove assessment was only done last March to October 2022. Based on the ground truthing conducted, a total of 3,337.48 hectares. From March to October, only 43.82 hectares were assessed and monitored due to lack of manpower and considering the vastness of mangrove area within their AOJ. Thus, the aforementioned office is requesting for the continuation of the above-mentioned target this CY 2023.

For information, consideration and record.

“For the PENRO”



[Signature]
RONIE B. GANDEZA
DMO IV/OIC-Chief, TSD
In Charge, Office of the PENRO





December 22, 2022

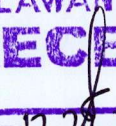
MEMORANDUM

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

FROM : The Community Environment and
Natural Resources Officer

SUBJECT : **REPORT ON MANGROVE ASSESSMENT AND MONITORING
OF MALAMPAYA SOUND PROTECTED LANDSCAPE AND
SEASCAPE (MSPLS), TAYTAY-SAN VICENTE, PALAWAN**

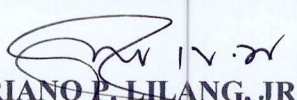
**DENR PENRO
PALAWAN RECORDS
RECEIVED**

BY: 
DATE: 12-24-2022 CN 22-11660

Respectfully submitting is the memorandum dated November 29, 2022 of Protected Area Superintendent (PASu) Clarissa P. Pador being an accomplishment and Means of Verification (MoV) on the target activity on the Monitoring of Corals, Mangroves and Seagrass under 001 Management of Coastal and Marine Resources/Areas of Malampaya Sound Protected Landscape and Seascape (MSPLS), Taytay-San Vicente, Palawan.


Please acknowledge the receipt hereof. Thank you.

For and in the absence of the CENRO:


MARIANO P. LILANG, JR.
Development Management Officer IV
In Charge, Office of the CENRO

Cc: PAMO-MSPLS

**DENR CENRO
TAYTAY, PALAWAN
RELEASED**

BY: 
DATE: DEC 22 2022 CN 22770



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

PROTECTED AREA MANAGEMENT OFFICE
MALAMPAYA SOUND PROTECTED LANDSCAPE AND SEASCAPE (MSPLS)
Taytay-San Vicente, Palawan
Barangay Old Guinlo, Taytay, Palawan
Email add: pamomspls@gmail.com/Contact #: 0938-786-3728 (SMART)



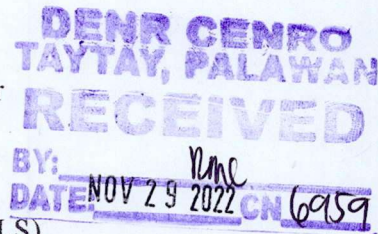
November 28, 2022

MEMORANDUM

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

FROM : The Protected Area Superintendent
Malampaya Sound Protected Landscape and Seascape (MSPLS)
Taytay-San Vicente, Palawan

SUBJECT : **REPORT ON THE ASSESSMENT AND MONITORING OF
MANGROVES FOR MALAMPAYA SOUND PROTECTED
LANDSCAPE AND SEASCAPE (MSPLS), TAYTAY-SAN
VICENTE, PALAWAN**



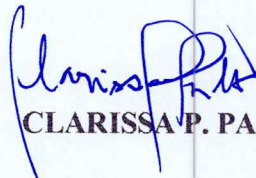
This pertains to the target activity on the Monitoring of Corals, Mangroves and Seagrass under 001 Management of Coastal and Marine Resources/Areas of Malampaya Sound Protected Landscape and Seascape (MSPLS), Taytay-San Vicente, Palawan.

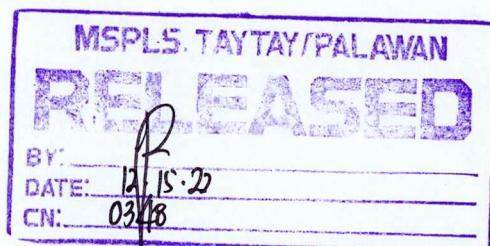
Respectfully forwarded is the memorandum dated November 25, 2022 of CMEMP Extension Officer Maria Lilibeth E. Arojo concerning the above subject. Please be informed that this Office in coordination with BLGU and partners' conducted the mangrove assessment and monitoring from March to October 2022 within Sitio Balingbing, Barangay Alacalian, Taytay, Palawan, hence, this Office has no baseline data. Based on the ground trothing conducted, the MSPLS has a total of 3,337.48 hectares of which 43.82 hectares were assessed and monitored. During the assessment, sixteen (16) mangroves species were recorded and among these, the *Rhizophora apiculata* is the most dominant species monitored within the mentioned area.

Based on the record, there is a previously Mangrove Resource Assessment conducted in selected areas of MSPLS, however, the methodology used was different from the prescribe guidelines of Biodiversity Management Bureau Technical Bulletin (BMB-TB) No. 2019-04. In this regard, this Office conducted the assessment to serve as the basis in the establishment of permanent monitoring plot/site.

Be informed further that, due to this circumstances, this Office did not able to fully accomplish the said target activity, hence, this Office respectfully requesting for the continuation of the target on CY 2023 due to considerable area to be assess and monitor, constraints of mobility vehicles (boat) used couple with fuel and unavailability of personnel to conduct the activity.

For his information, record and approval.


CLARISSA P. PADOR





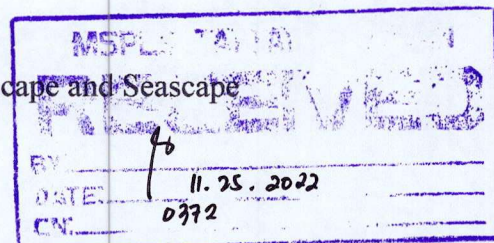
November 25, 2022

MEMORANDUM

FOR : The Protected Area Superintendent
Malampaya Sound Protected Landscape and Seascape
Taytay, Palawan

FROM : CMEMP Extension Officer
MSPLS, Taytay, Palawan

SUBJECT : **REPORT ON THE ASSESSMENT AND MONITORING OF
MANGROVES FOR MALAMPAYA SOUND PROTECTED
LANDSCAPE AND SEASCAPE (MSPLS), TAYTAY-SAN
VICENTE, PALAWAN.**



This pertains to the target activity on the Marine Protected Area Strengthening and Networking item a. Monitoring of mangroves under Management of Coastal and Marine Resources/Areas for Malampaya Sound Protected Landscape and Seascape (MSPLS), Taytay, Palawan.

Please be informed that the undersigned together with Forest Ranger Ricardo S. Tandoc, FR Francis Abe G. Bose and PAMO-MSPLS personnel in coordination with BLGU and partners conducted initial mangrove assessment from March to October 2022 within Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan. The MSPLS has a total of 3,337.48 has of mangroves of which 43.82 hectares were assessed and monitored. Sixteen (16) mangrove species were recorded during assessment namely *Acanthus ebracteatus*, *Acrostichum speciosum*, *Aegiceras corniculatum*, *Bruguiera cylindrica*, *Bruguiera gymnorhiza*, *Bruguiera parviflora*, *Bruguiera sexangula*, *Ceriops decandra*, *Ceriops tagal*, *Lumnitzera racemosa*, *Rhizophora apiculata*, *Rhizophora mucronata*, *Sonneratia alba*, *Xylocarpus granatum*, *Xylocarpus moluccensis* and *Nypa fruticans*. Among these species, *R. apiculata* is the most dominant species monitored within the aforesaid area.

Based on the ground truthing conducted the MSPLS has a total mangrove area of 3, 337.48 hectares. The PAMO-MSPLS has a previous Mangrove Resource Assessment conducted in selected areas within the protected area however, the methodology was different from the one prescribed by the Biodiversity Management Bureau Technical Bulletin (BMB-TB) No. 2019-04. Hence, the PAMO-MSPLS conducted assessment to serve as the basis for the establishment of the permanent monitoring plot. Due to this circumstances, the PAMO-MSPLS was not able to fully accomplished the target activity .

In view of the above, undersigned respectfully recommends for the continuation of the target activity next year due to considerable area to be assessed and monitored, limited of mobility vehicle (boat) and insufficient manpower to conduct the activity.

Attached are the copy of data result, maps and photos during the conduct of the activity.

For information and consideration.


MARIA LILIBETH E. AROJO

I. Methods

The activity was conducted in accordance with BMB Technical Bulletin No. 2019-04

Sampling Site

The assessment was conducted in Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan situated at approximately 19°25'21" East Longitude and 10°44'58"N Latitude. A total of 43.82 hectares of mangroves was assessed and monitored.



Figure 1. Mangrove area in Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan.

Survey Method

The team laid out 100 meters transect line from the shoreline of the 1st plot to landward with 100 meters interval in every quadrat. A 10 x 10 meters dimension and 2 x 2 meters quadrat was established in every transect. All species of mangroves present inside the plots were identified and recorded. A total of thirteen (13) species were identified in the aforesaid area. Seedlings, saplings and other associated flora were also recorded inside the 2 x 2 m plot within the 10 x10 plot. Other observations like disturbance, threats, uses, cuttings, garbage and fauna were also noted.

Global Positioning System (GPS) was also utilized to take readings otherwise note the points of the location of each corner of the plot in the Landsat imagery.

Density

Measuring tape, slate board and pencil were used to calculate Diameter at Breast Height (DBH) of mangrove trees. Other parameters measured include the estimated height, canopy or merchantable height and crown cover.

II. Result and Discussion

Data Analysis

Table I. Mangrove species in Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan.

Scientific Name	Local Name
1. <i>Acanthus ebracteatus</i>	Lagiwliw
2. <i>Acrostichum speciosum</i>	Palaypay
3. <i>Aegeiras corniculatum</i>	Saging-saging
4. <i>Bruguiera cylindrica</i>	Pototan
5. <i>Bruguiera gymnorrhiza</i>	Busain
6. <i>Bruguiera parviflora</i>	Langarai
7. <i>Bruguiera sexangula</i>	Pototan
8. <i>Ceriops decandra</i>	Baras-baras
9. <i>Ceriops tagal</i>	Tangal
10. <i>Lumnitzera racemosa</i>	Tabao
11. <i>Rhizophora apiculata</i>	Bakaw lalaki
12. <i>Rhizophora mucronata</i>	Bakaw babae
13. <i>Soneratia alba</i>	Pagatpat
14. <i>Xylocarpus granatum</i>	Tabigi
15. <i>Xylocarpus moluccensis</i>	Piag-ao
16. <i>Nypa fruticans</i>	Nipa

Transect line plot (TLP) method was used to study the community structure of the area. A total of twelve (12) plots were laid in the mangrove area of Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan. There are sixteen (16) species of mangroves recorded during assessment in the aforesaid area. Identification of mangrove species is based on the book of J.H. Primavera (2004).

Table 2. Beach Forest and Associated Fauna found in Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan.

Type	Scientific Name	Local Name
Beach Forest	<i>Terminalia catappa</i>	Talisay
	<i>Heritiera littoralis</i>	Dungon late
	<i>Morinda citrifolia</i>	Bangkoro, Apatot
Associated fauna	<i>Todiramphus chloris</i>	White collared Kingfisher
	<i>Cinnyris jugularis</i>	Olive backed sunbird
	<i>Numenius phaeopus,</i>	Whimbrel
	<i>Scolopacidae</i>	Sandpiper
	<i>Butorides striata</i>	Striated heron
	<i>Egretta garzetta</i>	Little Egret
	<i>Ardea alba</i>	Great Egret

Mangrove forest of Sitio Balingbing, Bgy. Alacalian recorded three (3) beach forest, and seven (7) associated fauna species. The most common beach forest monitored was *H. littoralis* while the most dominant fauna species identified was *C. jugularis*.

Importance Value

Table 3. Relative Density of mangrove species in Sitio Balingbing, Bgy. Alacalian.

Species	Scientific Name	Family Name	n	Den	R Den
			Total no. of species	no. of individual species/area sampled (sq.m)	(no. of individual species/sum of the densities of all species sampled) x 100 (1%)
Lagiwliw	<i>Acanthus ebracteatus</i>	Acanthaceae	98	0.000223642	7.132459971
Palaypay	<i>Acrostichum speciosum</i>	Pteridaceae	24	5.47695E-05	1.746724891
Saging-saging	<i>Aegiceras corniculatum</i>	Mysinaceae	1	2.28206E-06	0.072780204
Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	260	0.000593336	18.92285298
Busain	<i>Bruguiera gymnorhiza</i>	Rhozophoraceae	6	1.36924E-05	0.436681223
Langarai	<i>Bruguiera parviflora</i>	Rhozophoraceae	2	4.56413E-06	0.145560408
Pototan	<i>Bruguiera sexangula</i>	Rhozophoraceae	35	7.98722E-05	2.547307132
Baras-baras	<i>Ceriops decandra</i>	Rhozophoraceae	4	9.12825E-06	0.291120815
Tangal	<i>Ceriops tagal</i>	Rhozophoraceae	192	0.000438156	13.97379913
Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	20	4.56413E-05	1.455604076
Nipa	<i>Nypa fruticans</i>	Arecaceae	23	5.24874E-05	1.673944687
Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	472	0.001077134	34.35225619
Bakaw Babae	<i>Rhizophora mucronata</i>	Rhozophoraceae	157	0.000358284	11.42649199
Pagatpat	<i>Soneratia alba</i>	Sonneratiaceae	34	7.75901E-05	2.474526929
Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	26	5.93336E-05	1.892285298
Piag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	20	4.56413E-05	1.455604076
			1374	0.003135555	100

Table 3 shows the relative density of mangrove species in Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan. As initial result, *Rhizophora apiculata* has the highest relative density value of 34.35225619 compared to other species.

Table 4. Relative Frequency of mangrove species in Sitio Balingbing, Bgy. Alacalian.

Species	Scientific Name	Family Name	No. of segments occurred	Frequency	Rf
			No. of quadrats spp found	Total no. of segments in which Species A occurs/Total no. of segments sampled	(f value of Species A occurs/Total f value of Species A) x 100 (%)
Lagiwliw	<i>Acanthus ebracteatus</i>	Acanthaceae	1	0.083333333	0.558659218
Palaypay	<i>Acrostichum speciosum</i>	Pteridaceae	3	0.25	1.675977654
Saging-saging	<i>Aegiceras corniculatum</i>	Mysinaceae	1	0.083333333	0.558659218

Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	39	3.25	21.7877095
Busain	<i>Bruguiera gymnorrhiza</i>	Rhozophoraceae	5	0.416666667	2.793296089
Langarai	<i>Bruguiera parviflora</i>	Rhozophoraceae	2	0.166666667	1.117318436
Pototan	<i>Bruguiera sexangula</i>	Rhozophoraceae	11	0.916666667	6.145251397
Baras-baras	<i>Ceriops decandra</i>	Rhozophoraceae	2	0.166666667	1.117318436
Tangal	<i>Ceriops tagal</i>	Rhozophoraceae	26	2.166666667	14.52513966
Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	3	0.25	1.675977654
Nipa	<i>Nypa fruticans</i>	Arecaceae	6	0.5	3.351955307
Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	39	3.25	21.7877095
Bakaw Babae	<i>Rhizophora mucronata</i>	Rhozophoraceae	16	1.333333333	8.938547486
Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	9	0.75	5.027932961
Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	7	0.583333333	3.910614525
Piag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	9	0.75	5.027932961
			179	14.91666667	100

Table 4 shows the initial relative frequency of mangrove species in Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan. The dominant mangrove species was *Bruguiera cylindrica* and *Rhizophora apiculata* which had the highest relative frequency value of 21.7877095 compared to other species.

Table 5. Relative Dominance of mangrove species in Sitio Balingbing, Bgy. Alacalian.

Species	Scientific Name	Family Name	BA	Dom	R Dom
			Total BA of individaul species (m2)	Total BA of individual species/area sampled	(Total Basal Area (BA) of Species A/total Dom of all species) x 100 (%)
Lagiwliw	<i>Acanthus ebracteatus</i>	Acanthaceae	0	0	0
Palaypay	<i>Acrostichum speciosum</i>	Pteridaceae	0	0	0
Saging-saging	<i>Aegiceras corniculatum</i>	Mysinaceae	525	0.001198083	0.067524116
Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	185925	0.42429256	23.91318328
Busain	<i>Bruguiera gymnorrhiza</i>	Rhozophoraceae	1175	0.002681424	0.151125402
Langarai	<i>Bruguiera parviflora</i>	Rhozophoraceae	525	0.001198083	0.067524116
Pototan	<i>Bruguiera sexangula</i>	Rhozophoraceae	47375	0.108112734	6.093247588
Baras-baras	<i>Ceriops decandra</i>	Rhozophoraceae	2350	0.005362848	0.302250804
Tangal	<i>Ceriops tagal</i>	Rhozophoraceae	126775	0.289308535	16.30546624
Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	8775	0.020025103	1.128617363
Nipa	<i>Nypa fruticans</i>	Arecaceae	0	0	0
Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	257187.5	0.586918074	33.07877814
Bakaw Babae	<i>Rhizophora mucronata</i>	Rhozophoraceae	82050	0.187243268	10.55305466
Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	35412.5	0.080813555	4.554662379
Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	16000	0.036513008	2.057877814
Piag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	13425	0.030636696	1.726688103
			777500	1.774303971	100

Table 5 illustrates the initial computed average basal areas, dominance and relative dominance of the different mangrove species identified in Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan. The

total sampled basal area was 777500 m², wherein the highest value recorded was from *Rhizophora apiculata* (33.07877814). The high average basal area indicates that *Rhizophora apiculata* within the mangrove area of Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan are healthy and in good condition.

Table 6. Importance Value of mangrove species in Sitio Balingbing, Bgy. Alacalian.

Species	Scientific Name	R Den (no. of individual species / sum of the densities of all species sampled) x 100 (%)	Rf (f value of Species A occurs / Total f value of Species A) x 100 (%)	R Dom (Total Basal Area (BA) of Species A / total Dom of all species) x 100 (%)	IV Rf + Rden + Rdom (%)
Lagiwliw	<i>Acanthus ebracteatus</i>	7.132459971	0.558659218	0	7.691119189
Palaypay	<i>Acrostichum speciosum</i>	1.746724891	1.675977654	0	3.422702544
Saging-saging	<i>Aegiceras corniculatum</i>	0.072780204	0.558659218	0.067524116	0.698963537
Pototan	<i>Bruguiera cylindrica</i>	18.92285298	21.7877095	23.91318328	64.62374576
Busain	<i>Bruguiera gymnorhiza</i>	0.436681223	2.793296089	0.151125402	3.381102714
Langarai	<i>Bruguiera parviflora</i>	0.145560408	1.117318436	0.067524116	1.330402959
Pototan	<i>Bruguiera sexangula</i>	2.547307132	6.145251397	6.093247588	14.78580612
Baras-baras	<i>Ceriops decandra</i>	0.291120815	1.117318436	0.302250804	1.710690055
Tangal	<i>Ceriops tagal</i>	13.97379913	14.52513966	16.30546624	44.80440503
Tabao	<i>Lumnitzera racemosa</i>	1.455604076	1.675977654	1.128617363	4.260199093
Nipa	<i>Nypa fruticans</i>	1.673944687	3.351955307	0	5.025899994
Bakaw lalaki	<i>Rhizophora apiculata</i>	34.35225619	21.7877095	33.07877814	89.21874382
Bakaw Babae	<i>Rhizophora mucronata</i>	11.42649199	8.938547486	10.55305466	30.91809414
Pagatpat	<i>Sonneratia alba</i>	2.474526929	5.027932961	4.554662379	12.05712227
Tabigi	<i>Xylocarpus granatum</i>	1.892285298	3.910614525	2.057877814	7.860777637
Piag-ao	<i>Xylocarpus moluccensis</i>	1.455604076	5.027932961	1.726688103	8.210225139
		100	100	100	300

Table 6 illustrates the initial computed importance value of the different mangrove species identified in Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan. Among these species, *Rhizophora apiculata* has the highest value recorded.

Table 7. Diversity Indices of mangrove species in Sitio Balingbing, Bgy. Alacalian.

	Shannon-Weiner Index (H')			
Species	n	pi=ni/n	lnpi=LN (pi)	pi*lnpi
<i>Acanthus ebracteatus</i>	98	0.0713246	-2.640513994	-0.188333604
<i>Acrostichum</i>	24	0.017467249	-4.047427642	-0.070697426

<i>speciosum</i>				
<i>Aegiceras corniculatum</i>	1	0.000727802	-7.225481473	-0.00525872
<i>Bruguiera cylindrica</i>	260	0.18922853	-1.664799842	-0.315027627
<i>Bruguiera gymnorhiza</i>	6	0.004366812	-5.433722004	-0.023728044
<i>Bruguiera parviflora</i>	2	0.001455604	-6.532334292	-0.009508492
<i>Bruguiera sexangula</i>	35	0.025473071	-3.670133411	-0.09348957
<i>Ceriops decandra</i>	4	0.002911208	-5.839187112	-0.016999089
<i>Ceriops tagal</i>	192	0.139737991	-1.967986101	-0.275002425
<i>Lumnitzera racemosa</i>	20	0.014556041	-4.229749199	-0.061568402
<i>Nypa fruticans</i>	23	0.016739447	-4.089987257	-0.068464124
<i>Rhizophora apiculata</i>	472	0.343522562	-1.068502487	-0.367054712
<i>Rhizophora mucronata</i>	157	0.11426492	-2.169235667	-0.24786754
<i>Soneratia alba</i>	34	0.024745269	-3.699120948	-0.091535744
<i>Xylocarpus granatum</i>	26	0.018922853	-3.967384935	-0.075074242
<i>Xylocarpus moluccensis</i>	20	0.014556041	-4.229749199	-0.061568402
	1374			-1.971178162

For the species diversity, the Shannon Biodiversity Index was applied to quantify the species Richness and distribution of the area. The Sitio Balingbing, Bgy. Alacalian mangrove forest had a Shannon diversity index (H') value of -1.971178162.

IV. CONCLUSION AND RECOMMENDATION

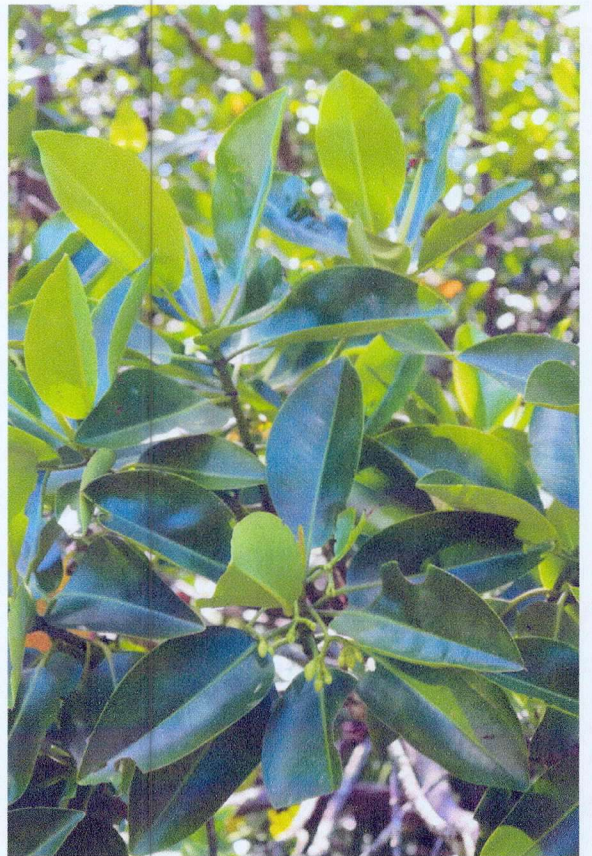
The mangrove area in Sitio Balingbing Brgy. Alacalian, Taytay, Palawan is considered as a healthy mangrove ecosystem. Sixteen mangrove species were identified during initial assessment namely *Acanthus ebracteatus*, *Acrostichum speciosum*, *Aegiceras corniculatum*, *Bruguiera cylindrica*, *Bruguiera gymnorhiza*, *Bruguiera parviflora*, *Bruguiera sexangula*, *Ceriops decandra*, *Ceriops tagal*, *Lumnitzera racemosa*, *Rhizophora apiculata*, *Rhizophora mucronata*, *Soneratia alba*, *Xylocarpus granatum*, *Xylocarpus moluccensis* and *Nypa fruticans*. The result of initial assessment conducted in Sitio Balingbing, Brgy. Alacalian, Taytay, Palawan, suggests that the mangrove species growing in the area are very diverse. This species is considered the most important components of the coastal ecosystem. The need to conduct mangrove area assessment plays an important role not only to have a baseline data for policy recommendation but mainly as foundation for the conservation and protection purposes. For better conservation, planning and management, it is recommended to conduct further assessment in coordination and participation of the locales and stakeholders.

Photo Documentation

Some photos of mangrove species found in Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan.



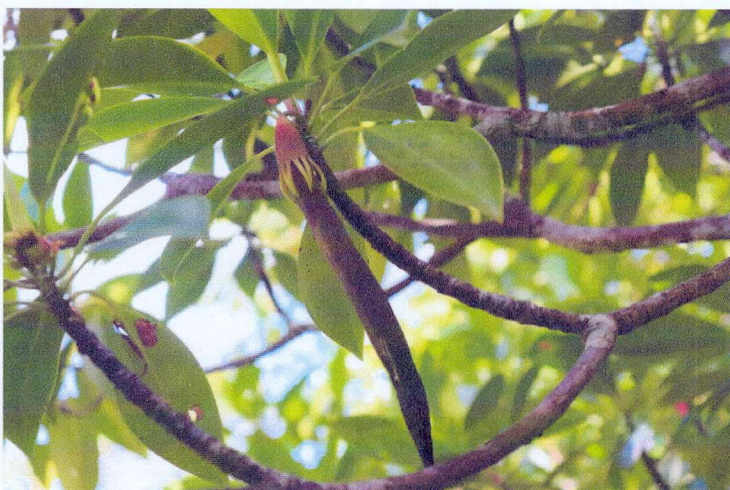
Acanthus ebracteatus



Rhizophora mucronata



Bruguiera cylindrica



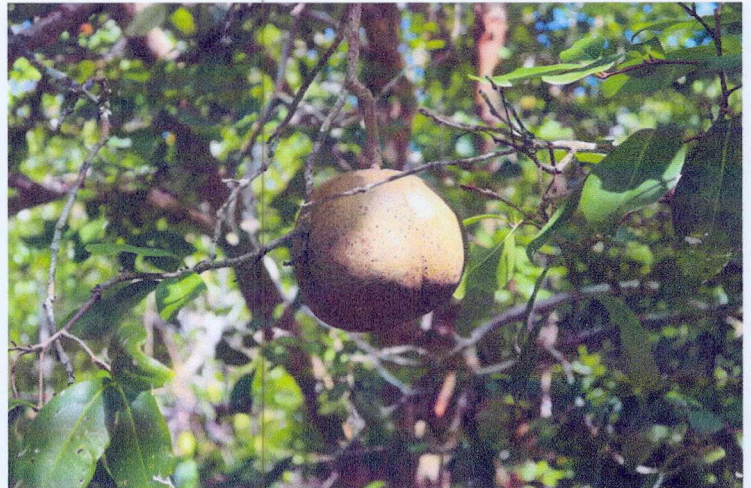
Bruguiera gymnorhiza



Bruguiera sexangula



Ceriops tangal



Xylocarpus granatum

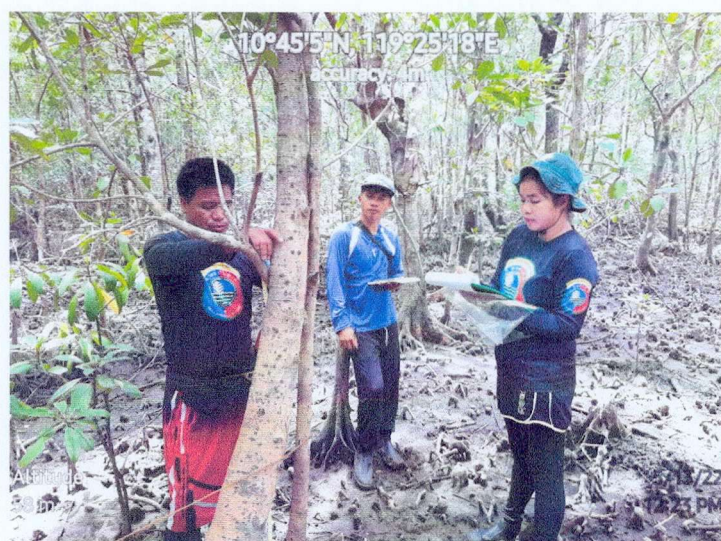


Rhizophora apiculata



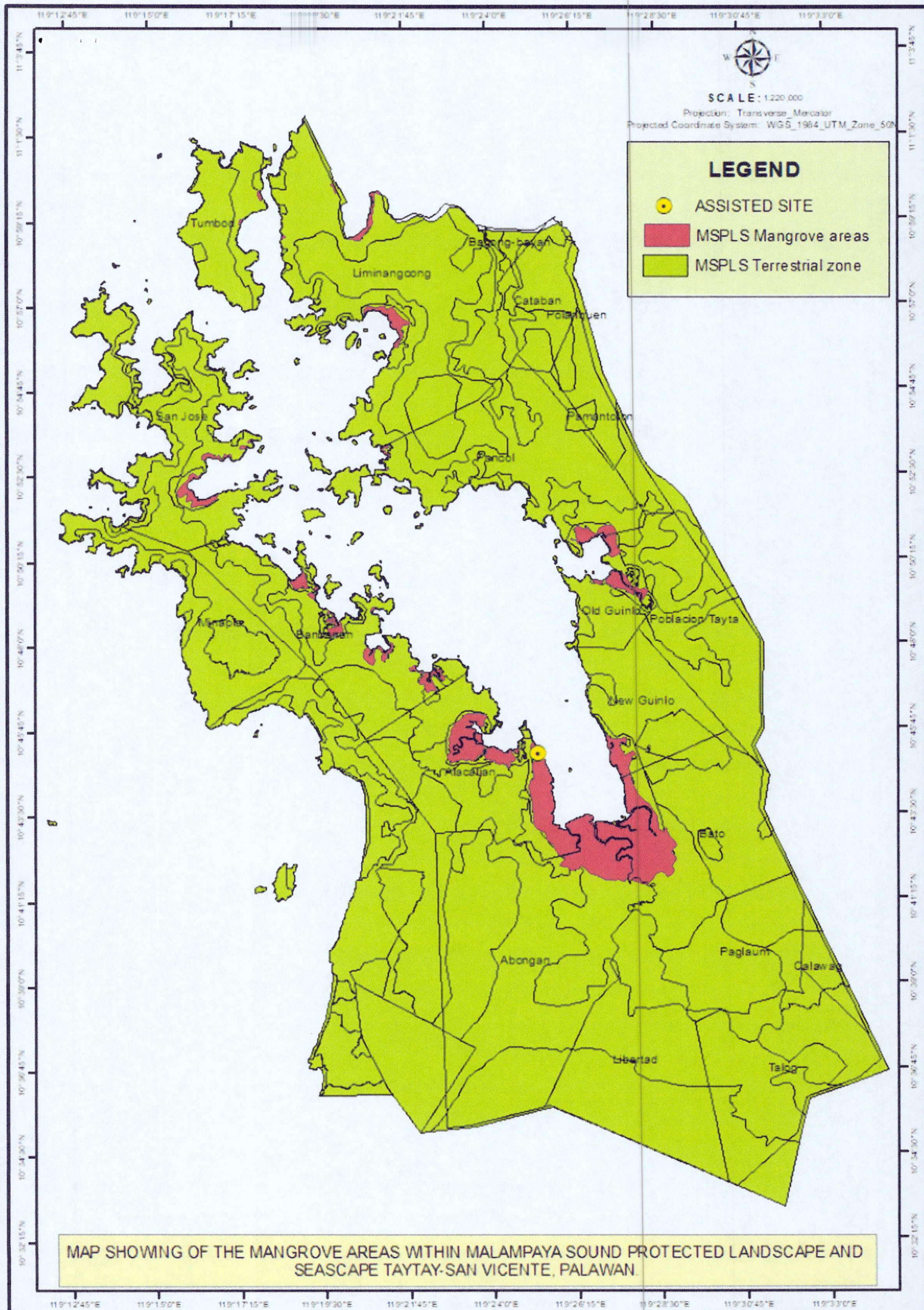
Nypa fruticans

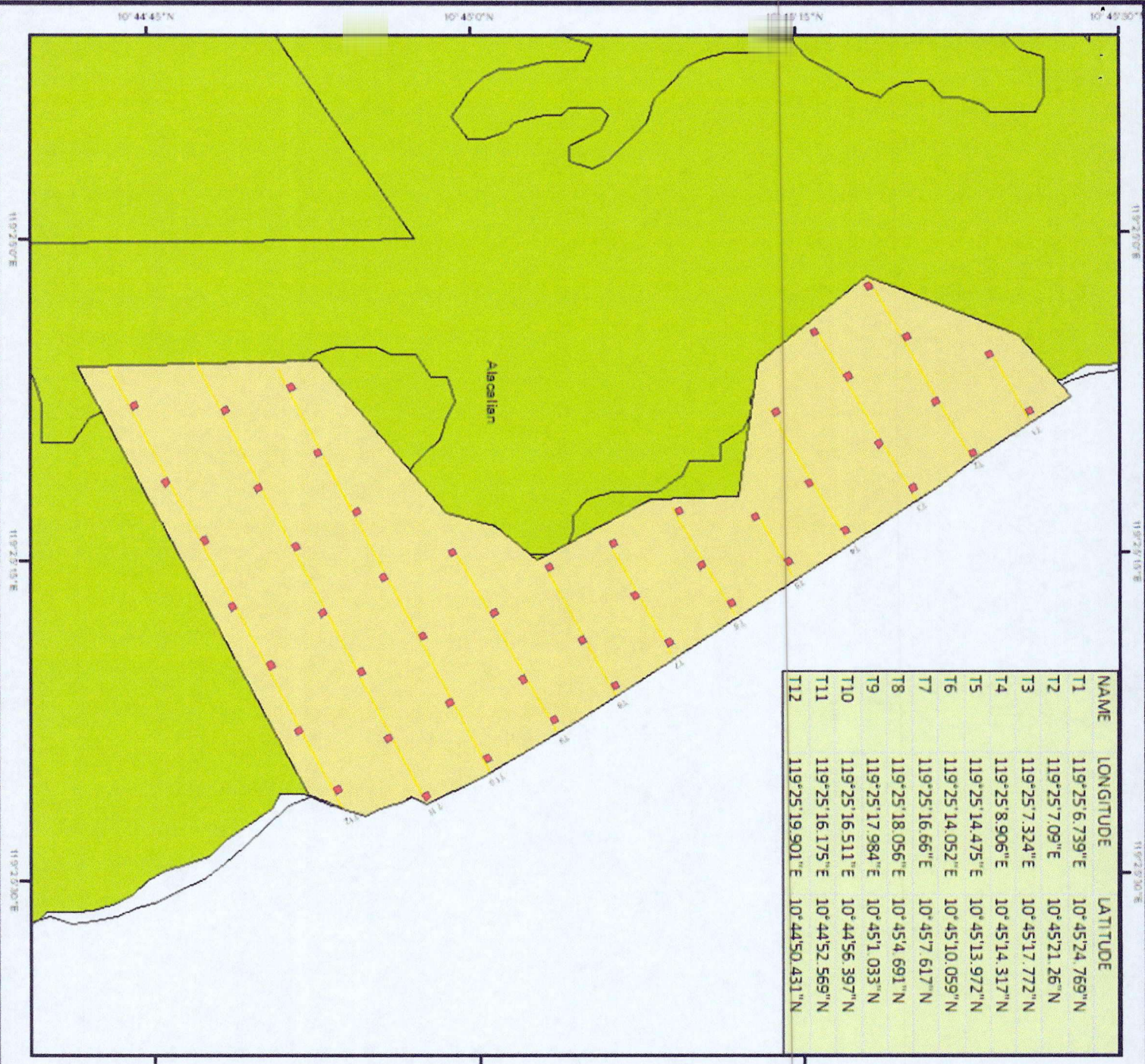
Photo Documentation



I hereby certify that the above photos are true and correct and was taken during mangrove assessment from March 2022 to October 2022 at Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan.

MARIA LILIBETH E. AROJO





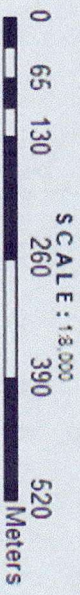
NAME	LONGITUDE	LATITUDE
T1	119°25'6.739"E	10°45'24.769"N
T2	119°25'7.09"E	10°45'21.26"N
T3	119°25'7.324"E	10°45'17.772"N
T4	119°25'8.906"E	10°45'14.317"N
T5	119°25'14.475"E	10°45'13.972"N
T6	119°25'14.052"E	10°45'10.059"N
T7	119°25'16.66"E	10°45'7.617"N
T8	119°25'18.056"E	10°45'4.691"N
T9	119°25'17.984"E	10°45'1.033"N
T10	119°25'16.511"E	10°44'56.397"N
T11	119°25'16.175"E	10°44'52.569"N
T12	119°25'19.901"E	10°44'50.431"N



Republic of the Philippines
Department of Environment and Natural Resources
MALAPARA REGION
PROTECTED AREA MANAGEMENT UNIT OFFICE
LAMPAYA SOUND PROTECTED LANDSCAPE AND SEASCAPE (MSP)
BAYBAYAN VICENTE, PALAWAN
BAGONG OIC GUARD, TAYAY, PALAWAN
Email: dnr.dpo@denr.gov.ph; dnr.dpo@denr.gov.ph; 09-357 963-722



LOCATION MAP
SHOWING THE MANGROVE ASSESSMENT SITE
LOCATED AT SITIO BALINGBING, BARANGAY
ALACALIAN, TAYAY, PALAWAN
WITHIN MALAMPAYA SOUND PROTECTED
LANDSCAPE AND SEASCAPE TERRESTRIAL AREAS.



Projection: Transverse_Mercator
Projected Coordinate System: WGS_1984_UTM_Zone_50N



CERTIFICATION

THIS IS TO CERTIFY that this area is within MALAMPAYA
SOUND PROTECTED LANDSCAPE AND SEASCAPE (MSPS)
per Presidential Proclamation No. 342 dated July 12, 2000

Digitized by:
RONEL P. SOLANA
Office Support Staff

Checked/Ventid:
CLARISSA P. PADOR
For: III/PASU MSPS

DATA SHEET FOR MANGROVE ASSESSMENT (Inside 10 x 10m plot)

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 1

Coordinates:
N: 10°45'24.769"N
E: 119°25'6.939"E

Date: March 23, 2022
Time: 8:10 am
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	27	4.6	1	W1 1	Major stem cutting
2	Muddy	Tabao	<i>Lumnitzera littorea</i>	Combretaceae	32	6	2	1	
3	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	24	6	2	1	
4	Muddy	Tabao	<i>Lumnitzera littorea</i>	Combretaceae	21	7	0.3	1	
5	Muddy	Saging-saging	<i>Aegiceras corniculatum</i>	Mysinaceae	21	5	1	1	
6	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	102	7	2	2	
7	Muddy	Nipa	<i>Nypa Fruticans</i>	Arecaceae	4				
8	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	8	3	2	1	
9	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	9	4	3	1	
10	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	9	4	3	1	
11	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	13	5	3	1	
12	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	9	3	1	1	
13	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	16	6	0.6	1	
14	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	16	6	1	1	
15	Muddy	Bakaw lalake	<i>Rhizophora apiculata</i>	Rhozophoraceae	17	7	3	1	0.5
16	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	22	7	3	1	1
17	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	30	7	3	1	1
18	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	11	1	0.5	0.5	0.5
19	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	33	7	2	1	1
20	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	18	7	3	1	1
21	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	48	4	2	2	
22	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	14	3	2	0.5	Sunbird
23	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	6	2	1	0.5	0.5
24	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	12	5	2	1	1
25	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	16	5	2	1	1
26	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	18	5	3	1	1
27	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	17	5	3	1	1
28	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	19	5	3	3	2
29	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	11	3	1	1	1
30	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	17	4	2	1	1

31	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	21	5	3	1	1	
32	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	25	5	3	1	1	
33	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	14	5	2	1	1	
34	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	25	5	2	1	1	
35	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	18	5	2	1	1	
36	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	9	3	1	0.5	0.5	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 1

Coordinates:
N: 10°45'24.769"N
E: 119°25'6.939"E

Date: March 23, 2022
Time: 8:25 am

Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente

Vegetation type: Moderate

Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	3	0.23	W1 1	W2 0.5
2	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	3	0.28	1	1
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	3	0.32	1	0.5
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	3	0.27	1	0.5
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	3	0.26	1	1
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	19	3	0.29	1	1
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	39	4.5	0.35	2	1
8	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	29	4.5	0.2	1	0.5
9	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	29	4.5	0.27	1	1
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	4.5	0.21	1	0.5
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	2	0.12	1	0.5
12	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	2	0.22	1	0.5
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	24	4	0.16	1.5	1
14	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	4	0.6	1.5	1
15	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	3.5	0.14	1	0.5
16	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	4	0.14	1.5	1
17	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	3.5	0.13	1	1
18	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	3.5	0.19	0.5	0.5
19	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	3.5	0.15	0.5	0.5
20	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	22	3	0.31	1	1
21	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	15	2	0.11	0.5	0.5
22	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	11	2	0.17	0.5	0.5
23	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	12	2	0.16	1	0.5
24	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	2.5	0.15	1	0.5
25	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	2.5	0.15	1	1

26	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	2	0.9	1	0.5	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
27	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	7	2	0.21	0.5	0.5	
28	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	22	4	0.22	2	1	
Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan										
Plot No: 2					Coordinates:		Date: March 23, 2022		Time: 8:50 am	
Transect No. 2					N: 10°45'24.769"N E: 119°25'6.939"E		Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin			
					Vegetation type: Moderate		Weather: Sunny			
TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)		
									W1	W2
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	7	3	1	1	Sandpiper
2	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	15	7	5	1	1	Little Egret
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	14	7	3	1	1	Great Egret
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	17	7	3	2	2	Apatot
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	19	8	2	2	2	
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	44	8	3	2	2	
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	29	8	2	1	1	
8	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	26	8	2	1	1	
9	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	28	8	3	2	2	
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	5	2	5	5	
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	7	3	1	1	
12	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	5	3	1	1	
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	14	7	3	1.5	1.5	
14	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	5	3	1	1	
15	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	15	6	2	1	1	
16	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	12	5	3	1	1	
17	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	5	3	1	1	
18	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	44	8	3	3	3	
19	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	17	7	3	1	1	
20	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	7	3	1	1	
21	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	5	2	0.5	0.5	
22	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	36	9	4	2	2	
23	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	32	9	3	2	2	
24	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	8	8	4	1	1	
25	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	23	8	6	2	2	
26	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	31	9	3	2	2	

27	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	13	5	3	2	2
28	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	22	5	2	2	2
29	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	36	10	6	2	2
30	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	10	9	4	1	1
31	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	40	10	7	1	1
32	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	32	11	7	3	3
33	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	13	5	3	1	1
34	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	13	6	3	2	2
35	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	12	7	5	1	1
36	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	12	7	5	1	1
37	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	31	10	5	2	2
38	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	15	9	4	1	1
39	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	11	6	2	1	1
40	Muddy	Langarai	<i>Bruguiera parviflora</i>	Rhozophoraceae	11	9	3	1	1
41	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	13	5	3	1	1
42	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	23	11	7	2	2
43	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	15	9	5	1	1
44	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	34	11	5	2	2
45	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	29	11	5	2	2
46	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	23	10	3	1	1
47	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	20	11	2	3	3
48	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	15	10	5	1	1
49	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	23	10	5	2	2
50	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	29	11	2	2	2

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 2

Date: March 23, 2022

Time:9:10 am

Coordinates:

N: 10°45'24.769"N

E: 119°25'6.939"E

Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente

Vegetation type:Moderate

Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)		OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
								W1	W2	
1	Muddy	Busain	<i>Bruguiera cylindrica</i>	Rhozophoraceae	13	3	0.7	1	1	Some of the mangrove species was damage by typhoon "Odette"
2	Muddy	Busain	<i>Bruguiera cylindrica</i>	Rhozophoraceae	11	3	0.9	1	1	Collection of mangrove species used for fishery structures
3	Muddy	Busain	<i>Bruguiera cylindrica</i>	Rhozophoraceae	7	2.5	0.8	1	1	Sunbird
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	5.5	2	0.8	0.5	0.5	
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	8	3	0.9	0.5	0.5	
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	9	4.5	0.6	1	1	
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	21	4	0.8	2	1	

White collared Kingfisher

8	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	19	2	0.6	2	1
9	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	17	4	0.3	2	1
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	19	4	0.5	2	1
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	17	4	0.6	2	1
12	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	7	2	0.7	1	0.5
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	30	5	1.5	3	2
14	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	26	5	0.36	3	2
15	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	21	4	0.7	3	2
16	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	22	5	1	3	2
17	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	17	4	1.5	3	2
18	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	8	3	0.3	2	1
19	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	4	1	2	1
20	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	21	5	0.4	2	1
21	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	24	5	0.16	2	1.5
22	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	27	5	0.29	2	1.5
23	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	19	5	1.5	1	1
24	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	29	5.5	2	2	1
25	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	27	5	0.21	2	1
26	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	4	0.18	1	1
27	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	8	4	1	1	1
28	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	8	4	1.12	1	1
29	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	28	6	0.31	1.5	1
30	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	8	4	1	1	0.5
31	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	8	4	1.5	1	1
32	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	8	4	2	1	1
33	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	8	4	4	1	1
34	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	5	3	1	0.5
35	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	5	2	1	0.5
36	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	4	3	1	1
37	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	5	3	1	0.5
38	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	4	3	1	1
39	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	4	1.5	1	1
40	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	8	3	1	1	1
41	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	3	2	1	1
42	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	22	5.5	0.25	2	1
43	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	33	5	0.13	2	1
44	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	4	1.5	2	1
45	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	3	0.2	2	1
46	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	5	0.2	1.5	1
47	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	28	5	0.3	2	2
48	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	5	2	2	2
49	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	4	1	2	1
		Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	15	4	1.5	1	0.5

50	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	22	5	0.1	1	1
51	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	24	5	2	3	2
52	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	3	1	1	1
53	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	3	2	1	0.5
54	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	3	2.5	1	0.5
55	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	4	2	0.5	0.5
56	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	3	2.5	0.5	0.5
57	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	3	1.5	1	0.5
58	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	4	1.8	2	1
59	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	19	5	2	2	1
60	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	7	2.5	1	2	1
61	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	19	5	2	1	1
62	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	3.5	2.5	0.5	0.5
63	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	3	2	1	0.5
64	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	4	2.5	1	0.5
65	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	3	1.5	1	0.5
66	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	3	2	0.5	0.5
67	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	3.5	2.5	0.5	0.5
68	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	3.5	2.5	0.5	0.5
69	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	5.5	3	1	1
70	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	5	3	1	0.5
71	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	4	2.5	0.5	0.5
72	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	4	2.5	0.5	0.5
73	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	4.5	3	1	0.5
74	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	3.5	2.5	1	0.5
75	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	3.5	2	1	0.5
76	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	4	3	1	0.5
77	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	3.5	2	0.5	0.5
78	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	3	2.5	1	0.5
79	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	16	4.5	1.2	2	1
80	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	4.5	2.5	1	0.5
81	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	2	0.7	1	0.5
82	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	3.5	2.5	1	1
83	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	3	2.5	0.5	0.5
84	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	3.5	2	0.5	0.5
85	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	3.5	2.5	0.5	0.5
86	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	3.5	1.5	1	1
87	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	3.5	1.5	1	1

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	Weather: Sunny		DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)		OBSERVATIONS (disturbance, threats,
1	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			8	1	1	W1	W2	
2	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			7	1	1	0.5	0.5	Striated heron
3	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			9	1	1	0.5	0.5	Sunbird
4	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			11	2	1	0.5	0.5	
5	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			12	2	0.5	0.5	0.5	
6	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			18	3	1	0.5	0.5	
7	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			12	2.5	1	0.5	0.5	
8	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			14	2	1	0.5	0.5	
9	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			10	2	1	0.5	0.5	
10	Muddy	Baras baras	<i>Ceriops Decandra</i>	Rhozophoraceae			24	2.5	2	2	1	
11	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae			13	1.5	1	0.5	0.5	
12	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae			14	1.5	1	0.5	0.5	
13	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			14	1	1	0.5	0.5	
14	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae			17	1	1	0.5	0.5	
15	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			20	1.5	2	1	1	
16	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			23	4	2	1	1	
17	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			25	3	1	1	1	
18	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			13	2.5	1	1	1	
19	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			8	2	1	0.5	0.5	
20	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			24	2.5	1	1	1	
21	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae			31	3	1	1	1	
22	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae			15	2	2	1	1	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 2

Coordinates:
N: 10°45'21.26"N
E: 119°25'7.09"E

Date: March 23, 2022
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente
Vegetation type: Moderate

Time: 9:58 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	Weather: Sunny		DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)		OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae			21	5	1.25	W1	W2	
2	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae			7	2.5	23	0.5	0.5	
3	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae			26	6	0.31	0.5	0.5	
4	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae			8	3	0.27	0.5	0.5	

5	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	7	2	1	0.5	0.5
6	Muddy	Nipa	<i>Nypa fruticans</i>	Arecaceae	3				
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	12	4	2	1	1
8	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	11	3	1.5	1	0.5
9	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	13	4	1.5	1.5	1
10	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	14	4	1	1.5	1
11	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	15	4	1	1.5	1
12	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	12	4	1	1.5	1
13	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	12	4	1	1	1
14	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	9	3.5	0.5	1	1
15	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	6	2.5	0.5	1	1
16	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	8	3	0.5	1	1
17	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	13	3	1.5	0.5	0.5
18	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	13	4	1	0.5	0.5
19	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	20	5	1	1	1
20	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	14	4	1	1	1
21	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	16	3.5	1.5	1	1
22	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	12	3	0.5	1	1
23	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	14	3	0.5	1	0.5
24	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	14	4	0.1	0.5	0.5
25	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	15	5.5	0.5	1	0.5
26	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	8	3.5	0.5	1	0.5
27	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	24	4.5	2	1	0.5
28	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	21	4	1	1	0.5
29	Muddy	Langarai	<i>Bruguiera parviflora</i>	Rhozophoraceae	10	3.5	1.5	0.5	0.5
30	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	31	7	2	1	0.5
31	Muddy	Nipa	<i>Nypa fruticans</i>	Arecaceae	3				
32	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	12	3.5	1.5	1	0.5
33	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	33	7	2	1	1
34	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	23	7	2	2	1
35	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	17	5	1.5	0.5	0.5
36	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	14	4	1.5	0.5	0.5
37	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	12	1	2	0.5	0.5
38	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	45	10	1.5	2	1.5
39	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	17	5.5	1.5	1	1
40	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	9	3.5	2	1	1
41	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	19	5.5	2	1	0.5
42	Muddy	Nipa	<i>Nypa fruticans</i>	Arecaceae	5				
43	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	22	5.5	1	1	0.5
44	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	18	5	1.5	1	1
45	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	13	4	1	0.5	0.5

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 3

Quadrat No. 1

Transect No. 3

Coordinates:

N: 10°45'17.772"N

E: 119°25'7.324"E

Date: April 8, 2022

Time: 7:46 am

Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin

Vegetation type: Moderate

Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)		OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
								W1	W2	
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	27	3	1	0.5	0.5	Presence of garbage(plastic bottle, etc.)
2	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	38	7	5	1	0.5	Dungon late
3	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhizophoraceae	11	3	1	1	1	
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	28	7	5	1	1	
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	28	7	5	1	1	
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	3	2	0.5	0.5	
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	15	7	1	0.5	0.5	
8	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	3	1.5	0.5	0.5	
9	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	31	8	3	1	0.5	
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	23	8	3	0.5	0.5	
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	30	9	4	1	1	
12	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	2.5	1.5	0.5	0.5	
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	7	4	0.5	0.5	
14	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	4	3	0.5	0.5	
15	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	4	3	0.5	0.5	
16	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	4	2	0.5	0.5	
17	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	4	2.5	0.5	0.5	
18	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	19	8	5	0.5	0.5	
19	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	35	10	4	0.5	0.5	
20	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	12	4	2	0.5	0.5	
21	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	5	2	0.5	0.5	
22	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	4	2	0.5	0.5	
23	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	2	1.5	0.5	0.5	
24	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	3	1.5	0.5	0.5	
25	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	17	7	4	0.5	0.5	
26	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	38	10	6	0.5	0.5	
27	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	52	10	6	1.5	1	
28	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	14	5	3	0.5	0.5	
29	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	2.5	1	0.5	0.5	
30	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	29	9	5	1	1	
31	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	40	10	6	2	1	
32	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	31	9	6	1	0.5	

33	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	30	9	5	0.5	0.5
34	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	30	9	6	0.5	0.5

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 3

Coordinates:
N: 10°45'17.772"N
E: 119°25'7.324"E

Quadrat No. 2
Transect No. 3

Date: April 8, 2022
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente
Vegetation type: Moderate
Weather: Sunny

Time: 8:05 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	32	8	1.2	W1	W2
2	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	42	8	1.2	3	Sunbird
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	47	8	1.2	3	Apatot
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	17	4	1.7	1	
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	12	3	1.5	0.5	
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	42	7	1.7	1	
7	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	55	7	1.7	2	
8	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	145	5	1.06	3	
9	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	21	2.5	1.5	1	
10	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	42	4	1.5	2	
11	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	11	1.5	1.4	0.5	
12	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	19	3	1.4	2.5	
13	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	103	8	2.5	4	
14	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	24	6	1.4	2	
15	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	30	6	1.4	2	
16	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	31	6	1.4	2	
17	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	47	7	1.4	3	
18	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	14	2.5	1.8	1.5	
19	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	43	7	1.8	3	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 3

Coordinates:
N: 10°45'17.772"N
E: 119°25'7.324"E

Quadrat No. 3
Transect No. 3

Date: April 8, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 8:40 am

OBSERVATIONS
(disturbance, threats,
uses, cuttings, garbage,
fauna)

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS
1	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	11	5	2	W1	W2
2	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	112	16	7	3	0.5
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	6	2	1	2
4	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	10	2	1	0.5	1
5	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	13	5	1	2	0.5
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	3	1	1	1
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	2	1	1	0.5
8	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	19	7	2.5	0.5	1
9	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	18	8	3	0.5	0.5
10	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	14	4	1	1	1
11	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	13	4	1	1	1
12	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	24	4	1	1.5	1
13	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	15	5	1	0.5	0.5
14	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhizophoraceae	61	12	6	2	1
15	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	13	5	2	0.5	0.5
16	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	17	8	2	0.5	0.5
17	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	10	3	1.5	0.5	0.5
18	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhizophoraceae	9	2.5	1	1	1
19	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	63	16	3	1	1
20	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhizophoraceae	8	2.5	1	0.5	0.5

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 3
Coordinates:
N: 10°45'17.772"N
E: 119°25'7.324"E
Date: April 8, 2022
Time: 8:55 am
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente
Vegetation type: Moderate
Weather: Sunny

OBSERVATIONS
(disturbance, threats,
uses, cuttings, garbage,
fauna)

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS
1	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	70	8	1.5	W1	W2
2	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	34	7	1.5	2	2
3	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	30	5	1.5	2	1
4	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	27	8	1.48	2	2
5	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	29	8	1.48	1.5	1

6	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	23	8	1.53	2	1
7	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	13	4	1.49	0.5	0.5
8	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	38	8	1.42	1	1
9	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	25	8	1.45	1	1
10	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	42	9	1.42	1.5	1
11	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	19	8	1.48	1	0.5
12	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	44	9	1.45	1.5	1
13	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	18	8	1.5	0.5	0.5
14	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	40	9	1.45	2	1
15	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	26	5	1.47	2	1
16	Muddy		<i>Nipa</i>	Arecaceae	4				
17	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	20	6	1.45	1.5	1
18	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	30	9	1.44	2	1
19	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	14	4	1.44	1	1
20	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	10	4	1.48	0.5	0.5
21	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	10	4	1.52	1	0.5
22	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	28	8	1.46	2	1
23	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	31	8	1.47	1	1
24	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	11	3	1.47	1	0.5
25	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	10	4	1.47	1	1
26	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	27	6	1.41	2	1
27	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	14	3	1.41	1	0.5
28	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	14	3	1.48	1	0.5
29	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	118	10	1.44	3	3
30	Muddy	Lagiwliw	<i>Acanthus ebracteatus</i>	Acanthaceae	98				
31	Muddy	Palaypay	<i>Acrostichum speciosum</i>	Pteridaceae	8				

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 4

Coordinates:

N: 10°45'14.317"N

E: 119°25'8.906"E

Date: April 20, 2022

Time: 7:35 am

Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin

Vegetation type: Moderate

Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	27	6	7	W1 0.5	W2 0.5
2	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	24	10	6	0.5	0.5
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	29	12	6	0.5	0.5
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	28	13	7	0.5	0.5

Some of the mangrove species was damage by typhoc

Collection of mangrove species used for fishery struct

5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	41	13	6	1.5	1
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	40	13	6	1.5	1
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	14	4	2	1	1
8	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	9	3	1.5	1	0.5
9	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	13	3	2	1	0.5
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	12	3	0.5	0.5	0.5
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	17	7	2.5	1	0.5
12	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	33	12	4	1	1
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	67	15	7	2.5	1
14	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	49	15	2	2.5	1
15	Muddy	Pototan	<i>Bruguiera Gymnorhiza</i>	Rhozophoraceae	23	10	3	1	1
16	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	12	6	2	1	0.5
17	Muddy	Pototan	<i>Bruguiera Gymnorhiza</i>	Rhozophoraceae	23	7	1.5	1	0.5
18	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	15	7	3	0.5	0.5
19	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	20	7	1.5	1	1
20	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	52	15	6	1	1
21	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	60	16	7	2	1

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 4

Quadrat No. 2

Transect No. 4

Coordinates:

N: 10°45'14.317"N

E: 119°25'8.906"E

Date: April 20, 2022

Time: 7:50 am

Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente

Vegetation type: Moderate

Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)		OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
								W1	W2	
1	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhozophoraceae	72	16	2.5	3	2	Dungon late
2	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhozophoraceae	13	6	2	1.5	1	
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	22	8	5	1	1	
4	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhozophoraceae	23	5	1.5	2	1	
5	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhozophoraceae	114	17	5	5	2	
6	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhozophoraceae	109	17	1.5	3	2	
7	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhozophoraceae	102	16	1.5	3	3	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 4

Coordinates:
N: 10°45'14.317"N
E: 119°25'8.906"E

Date: April 20, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 8:05 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhizophoraceae	132	21	10	W1 5	Some of the mangrove species was damage by typhoc WC Kingfisher
2	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhizophoraceae	16	7	1.5	1	
3	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhizophoraceae	42	8	1	2	
4	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	15	2	1	1	
5	Muddy	Palaypay	<i>Acrostichum speciosum</i>	Pteridaceae	8				
6	Muddy	Plag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	8	3	2.5	0.5	
7	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	13	3.5	1.5	1	
8	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	22	6	1	0.5	
9	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhizophoraceae	17	6	1	0.5	
10	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	200	10	2	1	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 5

Coordinates:
N: 10°45'13.972"N
E: 119°25'14.475"E

Date: April 20, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 8:35 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	14	6	3	W1 1	Sunbird Great Egret
2	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	6	2	1	
3	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	14	7	3	0.5	
4	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	16	8	6	0.5	
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	41	6	5	1.5	
6	Muddy	Pototan	<i>Bruguiera Gymnorhiza</i>	Rhizophoraceae	20	7	2	1	
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	51	12	3	2	
8	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	10	5	1	0.5	
9	Muddy	Plag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	11	4	1	0.5	
10	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	8	3.5	1	0.5	

11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	9	5	0.5	0.5
12	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	15	9	5	0.5	0.5
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	35	11	3	1	1
14	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	21	10	7	1	0.5
15	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	22	10	7	1	0.5
16	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhizophoraceae	16	8	2	1	0.5
17	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	23	11	6	0.5	0.5
18	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	15	9	3	0.5	0.5
19	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhizophoraceae	22	11	6	1	1
20	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	30	12	6	0.5	0.5
21	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhizophoraceae	9	6	2	0.5	0.5
22	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhizophoraceae	31	9	3	2	1
23	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	17	9	3	0.5	0.5
24	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	6	2.1	0.5	0.5
25	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	6	2.1	0.5	0.5
26	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhizophoraceae	11	5	1	0.5	0.5
27	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhizophoraceae	15	8	1	0.5	0.5
28	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	34	12	6	1	1
29	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	8	3	0.5	0.5
30	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	32	10	3	1.5	1
31	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhizophoraceae	10	8	1	0.5	0.5
32	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhizophoraceae	11	9	3	0.5	0.5
33	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	9	3	0.5	0.5
34	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhizophoraceae	13	8	3	0.5	0.5
35	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhizophoraceae	26	10	3	0.5	0.5

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 5

Coordinates:

N: 10°45'13.972"N

E: 119°25'14.475"E

Quadrat No. 2

Transect No. 5

Date: April 20, 2022

Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente

Vegetation type:Moderate

Weather: Sunny

Time:8:48 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)		OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
								W1	W2	
1	Muddy	Pototan	<i>Broguiera Sexangula</i>	Rhizophoraceae	121	15	6	5	3	
2	Muddy	Pototan	<i>Broguiera Sexangula</i>	Rhizophoraceae	51	15	3	3	2	
3	Muddy	Pototan	<i>Broguiera Sexangula</i>	Rhizophoraceae	37	8	2	2	1	
4	Muddy	Pototan	<i>Broguiera Sexangula</i>	Rhizophoraceae	71	10	3	5	3	
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	5	2	0.5	0.5	
6	Muddy	Pototan	<i>Broguiera Sexangula</i>	Rhizophoraceae	50	10	1	4	2	

7

Muddy

Pototan

Broguiera Sexangula

Rhozophoraceae

64

12

1

3

2

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 6

Coordinates:
N: 10°45'10.059"N
E: 119°25'14.052"E

Date: April 21, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 7:20 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw lalaki	Rhizophora apiculata	Rhozophoraceae	13	5	3	W1 1	W2 0.5
2	Muddy	Pototan	Broguiera Cylindrica	Rhozophoraceae	78	11	2	4	3
3	Muddy	Pototan	Broguiera Cylindrica	Rhozophoraceae	9	5	2	0.5	0.5
4	Muddy	Bakaw lalaki	Rhizophora apiculata	Rhozophoraceae	20	9	3	1	0.5
5	Muddy	Pototan	Broguiera Cylindrica	Rhozophoraceae	13	8	1.5	0.5	0.5
6	Muddy	Bakaw lalaki	Rhizophora apiculata	Rhozophoraceae	14	8	0.5	0.5	0.5
7	Muddy	Baras-baras	Cerlops decandra	Rhozophoraceae	24	9	2.5	1	1
8	Muddy	Pototan	Broguiera Cylindrica	Rhozophoraceae	11	4	1.5	1	0.5
9	Muddy	Bakaw lalaki	Rhizophora apiculata	Rhozophoraceae	14	8	3	1	0.5
10	Muddy	Bakaw lalaki	Rhizophora apiculata	Rhozophoraceae	20	9	5	0.5	0.5
11	Muddy	Baras-baras	Cerlops decandra	Rhozophoraceae	24	10	2.5	1	1
12	Muddy	Plag-ao	Xylocarpus moluccensis	Meliaceae	17	8	3	1	1
13	Muddy	Bakaw babae	Rhizophora macrunata	Rhozophoraceae	12	7	3	0.5	0.5
14	Muddy	Bakaw babae	Rhizophora macrunata	Rhozophoraceae	13	7	3	0.5	0.5
15	Muddy	Bakaw babae	Rhizophora macrunata	Rhozophoraceae	13	7	3	0.5	0.5
16	Muddy	Bakaw babae	Rhizophora macrunata	Rhozophoraceae	13	7	3	0.5	0.5
17	Muddy	Pototan	Broguiera macrunata	Rhozophoraceae	36	9	3	1.5	1
18	Muddy	Bakaw lalaki	Rhizophora apiculata	Rhozophoraceae	24	7	2.5	1	1
19	Muddy	Baras-baras	Cerlops decandra	Rhozophoraceae	22	6	1.5	1	0.5
20	Muddy	Pototan	Broguiera Cylindrica	Rhozophoraceae	36	10	6	1	1
21	Muddy	Pototan	Broguiera Cylindrica	Rhozophoraceae	29	10	6	1	1
22	Muddy	Tangal	Cerlops Tagal	Rhozophoraceae	34	7	3.5	1	1
23	Muddy	Bakaw babae	Rhizophora macrunata	Rhozophoraceae	55	11	7	1	1
24	Muddy	Bakaw babae	Rhizophora macrunata	Rhozophoraceae	30	9	4	1	0.5
25	Muddy	Bakaw lalaki	Rhizophora apiculata	Rhozophoraceae	18	7	3	0.5	0.5
26	Muddy	Pototan	Broguiera Cylindrica	Rhozophoraceae	11	5	4	1	0.5
27	Muddy	Tangal	Cerlops Tagal	Rhozophoraceae	19	8	3	0.5	0.5
28	Muddy	Bakaw babae	Rhizophora macrunata	Rhozophoraceae	19	8	6	0.5	0.5
29	Muddy	Bakaw babae	Rhizophora macrunata	Rhozophoraceae	20	8	6	0.5	0.5
30	Muddy	Bakaw babae	Rhizophora macrunata	Rhozophoraceae	14	8	6	0.5	0.5

31	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	25	10	6	1	1	0.5
32	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	13	4.5	1	1	1	0.5
33	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	20	8	5	1	1	0.5
34	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	76	12	3	4	2	2
35	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	41	7	1.5	2	1	1
36	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	128	12	6	3	2	2
37	Muddy	Plag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	51	10	3	2	1	1
38	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	25	8	3	2	1	1
39	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	76	12	7	4	3	3
40	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	19	8	2	1	1	1
41	Muddy	Plag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	45	10	3	2	1	1
42	Muddy	Plag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	13	6	4	0.5	0.5	0.5
43	Muddy	Plag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	68	10	3	2	1	1
44	Muddy	Nipa		Arecaceae	4					

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 6

Coordinates:
N: 10°45'10.059"N
E: 119°25'14.052"E

Quadrat No. 2
Transect No. 6

Date: April 21, 2022
Time: 7:35 am
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente
Vegetation type: Moderate
Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	47	7	2	W1 0.5	W2 0.5
2	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	58	9	2	2	2
3	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	35	8	1.5	1	1
4	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	29	8	1.5	1	1
5	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	21	7	2.5	1	0.5
6	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	16	5	1.5	0.5	0.5
7	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhozophoraceae	106	12	2	4	2
8	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhozophoraceae	9	4	1.5	1	0.5
9	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhozophoraceae	10	6	2.5	1	0.5
10	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	42	10	5	2	1
11	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	17	8	1	0.5	0.5
12	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhozophoraceae	28	9	1	0.5	0.5
13	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhozophoraceae	40	9	1	1	1
14	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	45	10	3	1	1
15	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	37	11	4	1.5	1
16	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhozophoraceae	13	6	2.5	0.5	0.5
17	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	9	6	1.5	0.5	0.5

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 6

Coordinates:
N: 10°45'10.059"N
E: 119°25'14.052"E

Quadrat No. 3
Transect No. 6

Date: April 21, 2022
Time: 8:05 am
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Pototan	<i>Broguiera Sexangula</i>	Rhozophoraceae	150	15	10	W1 5 W2 3	Sunbird
2	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	14	8	3	0.5	
3	Muddy	Pototan	<i>Broguiera Sexangula</i>	Rhozophoraceae	13	4	1	0.5	
4	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	47	8	5	1	
5	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	50	8	5	1	
6	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	16	7	2	0.5	
7	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	14	8	1	0.5	
8	Muddy	Pototan	<i>Broguiera Sexangula</i>	Rhozophoraceae	18	8	1.5	1	
9	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	16	8	1	0.5	
10	Muddy	Pototan	<i>Broguiera Sexangula</i>	Rhozophoraceae	12	6	1	1	
11	Muddy	Pototan	<i>Broguiera Sexangula</i>	Rhozophoraceae	11	6	1	1	
12	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	15	7	2	0.5	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 7

Coordinates:
N: 10°45'7.617"N
E: 119°25'16.66"E

Quadrat No. 1
Transect No. 7

Date: May 13, 2022
Time: 8:20 am
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	35	8	5	W1 2 W2 1	Some of the mangrove species was damage by typhoon "Odette"
2	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	85	12	2	2	
3	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	70	12	5	2	
4	Muddy	Bakaw babae	<i>Rhizophora mucrunata</i>	Rhozophoraceae	10	3	1	0.5	
5	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	12	3	1	0.5	
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	59	8	4	2	
7	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	14	8	3	1	

8	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	11	4	1	1	1	1
9	Muddy	Tangkal	<i>Cerriops Tagal</i>	Rhozophoraceae	9	4	1	0.5	0.5	
10	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	22	9	4	1	1	
11	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	51	9	1	2	1	
12	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	17	7	1	2	2	
13	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	30	12	5	1	1	
14	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	26	10	6	1	0.5	
15	Muddy	Tangkal	<i>Cerriops Tagal</i>	Rhozophoraceae	19	9	3	2	1	
16	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	23	12	5	1	0.5	
17	Muddy	Tangkal	<i>Cerriops Tagal</i>	Rhozophoraceae	30	9	3	2	1	
18	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	10	4	1	0.5	0.5	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 7

Coordinates:

N: 10°45'7.617"N

E: 119°25'16.66"E

Date: May 13, 2022

Time: 8:40 am

Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente

Vegetation type: Moderate

Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)		OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
								W1	W2	
1	Muddy	Tangkal	<i>Cerriops Tagal</i>	Rhozophoraceae	16	5	1.21	0.5	0.5	Mangrove cuttings
2	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	12	5	3	0.5	0.5	
3	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	10	3.5	1.9	0.5	0.5	
4	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	14	5	3	1	0.5	
5	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	29	12	2.5	1	1	
6	Muddy	Tangkal	<i>Cerriops Tagal</i>	Rhozophoraceae	52	12	1.23	3	2	
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	13	5	1.5	1	1	
8	Muddy	Tangkal	<i>Cerriops Tagal</i>	Rhozophoraceae	20	4	1	1	0.5	
9	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	34	5	1.2	2	2	
10	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	30	12	3	1	1	
11	Muddy	Tangkal	<i>Cerriops Tagal</i>	Rhozophoraceae	12	3	0.9	1	1	
12	Muddy	Tangkal	<i>Cerriops Tagal</i>	Rhozophoraceae	15	4	0.9	1	1	
13	Muddy	Tangkal	<i>Cerriops Tagal</i>	Rhozophoraceae	56	10	2.5	3	2	
14	Muddy	Tangkal	<i>Cerriops Tagal</i>	Rhozophoraceae	22	5	1.5	1	1	
15	Muddy	Tangkal	<i>Cerriops Tagal</i>	Rhozophoraceae	32	6	1.5	2	1	
16	Muddy	Tangkal	<i>Cerriops Tagal</i>	Rhozophoraceae	45	6	1.2	2	2	
17	Muddy	Tangkal	<i>Cerriops Tagal</i>	Rhozophoraceae	50	7	2	3	2	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 7

Coordinates:
N: 10°45'7.617"N
E: 119°25'16.66"E

Date: May 13, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 9:03 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	22	6	0.65	W1 2 W2 1	Sunbird
2	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	40	8	2	3	2
3	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	46	8	6	2	1
4	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	15	4	2.5	0.5	0.5
5	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	15	4	2.5	2	1
6	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	11	3	0.72	1	0.5
7	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	47	8	2.5	3	2
8	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	13	5	3	1	1
9	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	13	4	0.64	1	1
10	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	48	10	1.5	3	2
11	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	16	5	1	0.5	0.5
12	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	23	8	5	1	1
13	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	33	8	6	2	1
14	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	48	10	2	2	2
15	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	64	12	4.5	3	2
16	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	23	7	4	2	1
17	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	19	6	1.6	2	1
18	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	16	6	4	2	1

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 8
Coordinates:
N: 10°45'4.691"N
E: 119°25'18.056"E

Date: May 13, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Cloudy

Time: 9:45 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	35	12	5	W1 2 W2 1	
2	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	10	7	2	0.5	0.5

3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	16	8	6	2	1
4	Muddy	Pototan	<i>Braguiera Cylindrica</i>	Rhozophoraceae	14	9	1	1	1
5	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	17	8	6	0.5	0.5
6	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	9	4	1	1	0.5
7	Muddy	Pototan	<i>Braguiera Cylindrica</i>	Rhozophoraceae	72	12	2.5	4	3
8	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	9	3	1	1	1
9	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	12	7	3	2	1
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	25	8	5	2	1
11	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	76	12	3	3	2
12	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	16	6	3	1	0.5
13	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	16	8	6	1	1
14	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	23	12	3	1	1
15	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	12	5	2	0.5	0.5
16	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	18	7	3	1	0.5
17	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	14	9	4	0.5	0.5
18	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	13	8	3	0.5	0.5
19	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	11	7	1	0.5	0.5
20	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	16	7	5	0.5	0.5
21	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	14	7	4	0.5	0.5
22	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	12	5	1.5	0.5	0.5
23	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	11	5	1.5	0.5	0.5
24	Muddy	Pototan	<i>Braguiera Gymnarrhiza</i>	Rhozophoraceae	38	8	3	3	2
25	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	14	7	0.5	0.5	0.5
26	Muddy	Pototan	<i>Braguiera Cylindrica</i>	Rhozophoraceae	10	11	1	0.5	0.5
27	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	11	7	2	0.5	0.5
28	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	14	7	5	0.5	0.5
29	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	9	4	3	0.5	0.5
30	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	12	5	2	0.5	0.5
31	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	14	5	2	0.5	0.5
32	Muddy	Pototan	<i>Braguiera Cylindrica</i>	Rhozophoraceae	13	6	2	0.5	0.5
33	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	13	7	5	0.5	0.5
34	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	12	6	3	0.5	0.5
35	Muddy	Pototan	<i>Braguiera Cylindrica</i>	Rhozophoraceae	11	8	3	0.5	0.5
36	Muddy	Pototan	<i>Braguiera Cylindrica</i>	Rhozophoraceae	12	7	4	0.5	0.5
37	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	54	12	2	3	2
38	Muddy	Pototan	<i>Braguiera Cylindrica</i>	Rhozophoraceae	10	6	1	0.5	0.5
39	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	10	5	1	0.5	0.5
40	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	28	6	5	1	1
41	Muddy	Pototan	<i>Braguiera Cylindrica</i>	Rhozophoraceae	12	6	1.5	0.5	0.5
42	Muddy	Pototan	<i>Braguiera Cylindrica</i>	Rhozophoraceae	12	6	1.5	0.5	0.5
43	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	14	7	5	0.5	0.5
44	Muddy	Bakaw babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	23	9	6	1	1
45	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	40	12	2.5	2	2

46

Muddy

Pototan

Bruguiera Cylindrica

Rhozophoraceae

33

9

1

2

1

47

Muddy

Bakaw babae

Rhizophora macrunata

Rhozophoraceae

14

5

2

0.5

0.5

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 8

Coordinates:
N: 10°45'4.691"N
E: 119°25'18.056"E

Date: May 13, 2022

Time:10:05 am

Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente

Vegetation type:Moderate

Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	13	3	1.55	W1 1	W2 0.5
2	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	31	7	3	1	1
3	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	13	6	5	1	1
4	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	17	6	5	1	1
5	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	17	7	2.5	1	1
6	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	71	12	4	3	2
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	17	6.5	5	1.5	1
8	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	67	13	5	4	2
9	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	21	3	1.5	1	0.5
10	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	24	7	4	1	1
11	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	23	7	5	1.5	1
12	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	14	6	1.2	1	1
13	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	30	8	1.34	2	1.5
14	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	19	7	3	1	1
15	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	12	5	2	1	0.5
16	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	13	5	1.4	1	1
17	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	20	10	5	2	2
18	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	53	12	1.5	6	4
19	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	72	12	4	6	4
20	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	35	10	5	3	2
21	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	13	4	2	1.5	1
22	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	12	5	2.5	1	1

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 8

Coordinates:
N: 10°45'4.691"N
E: 119°25'18.056"E

Date: May 13, 2022
Time: 10:08 am
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhizophoraceae	58	12	2	W1 3	W2 3
2	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	18	6	2	2	1
3	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhizophoraceae	37	10	1.5	3	2
4	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhizophoraceae	12	4	1.38	1	1
5	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhizophoraceae	21	7	2.5	2	1
6	Muddy	Pototan	<i>Bruguiera Sexangula</i>	Rhizophoraceae	42	8	3	2	2
7	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhizophoraceae	11	5	3	1	1
8	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhizophoraceae	15	9	4	1	1
9	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	62	10	3	2	2
10	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	113	4	1	2	2
11	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	68	8	1	3	2
12	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	203	10	4	2	2

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 9

Coordinates:
N: 10°45'1.033"N
E: 119°25'17.984"E

Date: May 13, 2022
Time: 11:05 am
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Cloudy

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	11	7		W1 0.5	W2 0.5
2	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	11	7		0.5	0.5
3	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	11	7		0.5	0.5
4	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	11	7		0.5	0.5
5	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	15	8	5	1	1
6	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	67	13	5	2	2
7	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	10	7		0.5	0.5

8	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	11	7			0.5	0.5
9	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	11	5	3		0.5	0.5
10	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	21	9	3		1	1
11	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	14	9	5		1	0.5
12	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	12	5	2		0.5	0.5
13	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	17	9	6		0.5	0.5
14	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	12	6	3		0.5	0.5
15	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	29	10	6		2	1
16	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	12	7	9		0.5	0.5
17	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	16	10	5		1	1
18	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	11	5	3		0.5	0.5
19	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	22	10	3		1	1
20	Muddy	Pototan	<i>Broguiera cylindrica</i>	Rhizophoraceae	16	3	1		0.5	0.5
21	Muddy	Pototan	<i>Broguiera cylindrica</i>	Rhizophoraceae	26	10	2		2	1
22	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	31	10	6		2	2
23	Muddy	Pototan	<i>Broguiera cylindrica</i>	Rhizophoraceae	12	5	2		1	1
24	Muddy	Pototan	<i>Broguiera cylindrica</i>	Rhizophoraceae	11	5	2		1	1
25	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	11	7	2		0.5	0.5
26	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	22	10	6		1	1
27	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	11	5	3		1	1
28	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	18	10	6		1	1
29	Muddy	Tangkal	<i>Cerriops tagal</i>	Rhizophoraceae	18	7	2		2	1
30	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	27	9	5		0.5	0.5
31	Muddy	Pototan	<i>Broguiera cylindrica</i>	Rhizophoraceae	16	7	2		2	1
32	Muddy	Pototan	<i>Broguiera cylindrica</i>	Rhizophoraceae	67	12	5		4	3
33	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	10	5	2		0.5	0.5
34	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	16	7	3		1	1
35	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	11	5	3		0.5	0.5
36	Muddy	Pototan	<i>Broguiera cylindrica</i>	Rhizophoraceae	52	12	4		2	1
37	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	15	8	11		1	1
38	Muddy	Tangkal	<i>Cerriops tagal</i>	Rhizophoraceae	15	4	1		1	1
39	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	14	8	5		0.5	0.5
40	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	10	5	4		0.5	0.5
41	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	20	10	4		0.5	0.5
42	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	18	10	4		1	1
43	Muddy	Pototan	<i>Broguiera cylindrica</i>	Rhizophoraceae	28	10	4		2	1
44	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	12	8	2		0.5	0.5
45	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	51	12	3		2	2
46	Muddy	Pototan	<i>Broguiera cylindrica</i>	Rhizophoraceae	37	12	3		2	1

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 9

Coordinates:
N: 10°45'1.033"N
E: 119°25'17.984"E

Date: May 13, 2022
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente
Vegetation type: Moderate
Weather: Sunny

Time: 11:24 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw Lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	12	5	2.5	W1 1	Sunbird
2	Muddy	Pototan	<i>Braguiera Sexangula</i>	Rhozophoraceae	58	15	4	4	
3	Muddy	Pototan	<i>Braguiera Sexangula</i>	Rhozophoraceae	51	15	14	4	
4	Muddy	Pototan	<i>Braguiera Cylindrica</i>	Rhozophoraceae	65	16	8	2	
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	69	16	8	3	
6	Muddy	Pototan	<i>Braguiera Cylindrica</i>	Rhozophoraceae	56	16	5	2	
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	21	8	4	1	0.5
8	Muddy	Pototan	<i>Braguiera Cylindrica</i>	Rhozophoraceae	57	10	4.5	2	
9	Muddy	Tabigi	<i>Xylcarpus granatum</i>	Meliaceae	20	4	2	0.5	0.5
10	Muddy	Pototan	<i>Braguiera Cylindrica</i>	Rhozophoraceae	70	12	1.6	3	2
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	18	6	6.5	0.5	0.5

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 9

Coordinates:
N: 10°45'1.033"N
E: 119°25'17.984"E

Date: May 13, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 12:03 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	20	6	5	W1 0.5	W2 0.5
2	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	15	5	1.6	1	0.5
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	18	6	4	1	0.5
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	14	5	3	1	1
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	30	7	5	1	1
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	15	4	1.5	1	1
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	34	6	4	2	2
8	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	14	2.5	1.7	0.5	0.5
9	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	25	6	1.7	2	2
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	22	5	2	1	1

11	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	17	4	1	0.5	0.5
12	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	14	5	2	1.5	1
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	33	7	3	2	1
14	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	17	6	4	0.5	0.5
15	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	36	8	4	2	1
16	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	12	3	2	0.5	0.5
17	Muddy	Tangal	<i>Cerriops Tagal</i>	Rhozophoraceae	21	7	1.3	1	0.5
18	Muddy	Tangal	<i>Cerriops Tagal</i>	Rhozophoraceae	17	5	0.7	1	0.5
19	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	100	12	2	3	3
20	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	35	7	1.5	2	1
21	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	39	7	2	2	1
22	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	13	4	1.6	0.5	0.5
23	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	16	2.5	1.2	2	1
24	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	45	7	3	2	2
25	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	45	7	4	2	2
26	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	48	7	5.5	3	2
27	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	34	8	3	2	2
28	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	22	6	2.5	1	1

Location: Sitio Balingbing, Bgy. Alacalian, Taytav, Palawan

Plot No: 9

Coordinates:

N: 10°45'1.033"N

E: 119°25'17.984"E

Quadrat No. 4

Transect No. 9

Date: May 13, 2022

Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente

Vegetation type:Moderate

Weather: Sunny

Time:11:56 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS	
									(disturbance, threats, uses, cuttings, garbage, fauna)	
1	Muddy	Tangal	<i>Cerriops Tagal</i>	Rhozophoraceae	38	3	1	2	W1	W2 WC kingfisher
2	Muddy	Tangal	<i>Cerriops Tagal</i>	Rhozophoraceae	13	3	1	2	2	1
3	Muddy	Tangal	<i>Cerriops Tagal</i>	Rhozophoraceae	31	5	3	2	2	1
4	Muddy	Tangal	<i>Cerriops Tagal</i>	Rhozophoraceae	39	6	3	2	2	2
5	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	34	5	3	2	2	1
6	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	34	5	2	2	2	1
7	Muddy	Tangal	<i>Cerriops Tagal</i>	Rhozophoraceae	16	4	1	1	1	1
8	Muddy	Tangal	<i>Cerriops Tagal</i>	Rhozophoraceae	20	5	3	2	2	1

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 10

Coordinates:
N: 10°45'56.397"N
E: 119°25'16.511"E

Date: May 25, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 8:03 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	15	5	1.5	W1	W2
2	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	13	3	1	0.5	0.5
3	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	16	7	2	0.5	0.5
4	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	10	6	3	0.5	0.5
5	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	14	5	3	0.5	0.5
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	24	8	5	1	1
7	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	14	6	2	1	1
8	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	13	7	3	0.5	0.5
9	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	12	5	3	0.5	0.5
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	25	8	5	1	1
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	14	9	5	0.5	0.5
12	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	13	7	3	0.5	0.5
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	14	8	5	0.5	0.5
14	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	13	6	2	0.5	0.5
15	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	12	5	2	1	1
16	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	56	10	7	2	1
17	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	23	8	6	1	0.5
18	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	20	9	6	1	1
19	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	14	8	2.5	0.5	0.5
20	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	13	8	5	1	1
21	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	35	10	3	2	1
22	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	14	8	4	1	0.5
23	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	13	8	5	0.5	0.5
24	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	10	7	3	1	1
25	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	16	9	6	1	0.5
26	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	40	11	3	2	1
27	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	18	7	3	0.5	0.5
28	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	53	12	6	1	1
29	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	14	6	3	1	1
30	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	22	9	5	1	1
31	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	31	9	3	1	1
32	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	13	6	2.5	2	1

33

Muddy

Bakaw Babae

Rhizophora macrunata

Rhozophoraceae

57

12

7

2

2

34

Muddy

Pototan

Bruguiera Cylindrica

Rhozophoraceae

24

6

3

2

1

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 10

Coordinates:

N: 10°45'56.397"N

E: 119°25'16.511"E

Date: May 25, 2022

Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente

Vegetation type: Moderate

Weather: Sunny

Time: 8:15 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
----------	-----------	---------	-----------------	-------------	----------------	--------	--------	--------------------	---

1	Muddy	Pototan	Bruguiera Sexangula	Rhozophoraceae	36	10	1.5	W1	W2	Sunbird
2	Muddy	Pototan	Bruguiera Cylindrica	Rhozophoraceae	46	12	3	3	2	
3	Muddy	Pototan	Bruguiera Cylindrica	Rhozophoraceae	62	12	3	3	2	
4	Muddy	Pototan	Bruguiera Cylindrica	Rhozophoraceae	65	12	3	3	2	
5	Muddy	Pototan	Bruguiera Cylindrica	Rhozophoraceae	14	5	1.5	1.5	1	
6	Muddy	Pototan	Bruguiera Cylindrica	Rhozophoraceae	12	4	1.5	1	0.5	
7	Muddy	Bakaw lalaki	Rhizophora apiculata	Rhozophoraceae	24	7	2	2	1	
8	Muddy	Pototan	Bruguiera Cylindrica	Rhozophoraceae	14	3	1.5	1	1	
9	Muddy	Pototan	Bruguiera Sexangula	Rhozophoraceae	97	12	5	4	3	
10	Muddy	Pototan	Bruguiera Sexangula	Rhozophoraceae	49	12	5	2	2	
11	Muddy	Pototan	Bruguiera Sexangula	Rhozophoraceae	46	12	4	3	2	
12	Muddy	Pototan	Bruguiera Cylindrica	Rhozophoraceae	20	7	4	2	1	
13	Muddy	Pototan	Bruguiera Cylindrica	Rhozophoraceae	20	5	2	2	2	
14	Muddy	Pototan	Bruguiera Cylindrica	Rhozophoraceae	87	10	6	4	2	
15	Muddy	Bakaw lalaki	Rhizophora apiculata	Rhozophoraceae	31	9	6	2	1	
16	Muddy	Bakaw lalaki	Rhizophora apiculata	Rhozophoraceae	12	4	1	1	0.5	
17	Muddy	Bakaw lalaki	Rhizophora apiculata	Rhozophoraceae	31	10	7	3	3	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 10

Coordinates:

N: 10°45'56.397"N

E: 119°25'16.511"E

Date: May 25, 2022

Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin

Vegetation type: Moderate

Weather: Sunny

Time: 8:56 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
----------	-----------	---------	-----------------	-------------	----------------	--------	--------	--------------------	---

W1

W2

1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	42	14	6	2	2
2	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	72	12	7	2	2
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	6	3	0.5	0.5
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	30	12	8	1	1
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	24	12	7	1	1
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	14	6	2	1	1
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	9	7	2	1
8	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	53	14	7	2	2
9	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	19	10	7	1	1
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	56	13	8	2	1
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	28	11	7	1	1
12	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	19	10	4	0.5	0.5
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	27	12	7	1	1
14	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	34	12	9	2	1
15	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	38	13	9	1	1
16	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	10	7	1	0.5
17	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	19	11	10	1	0.5
18	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	14	7	6	0.5	0.5
19	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	22	10	7	1	1
20	Muddy	Pototan	<i>Broguiera cylindrica</i>	Rhizophoraceae	15	7	5	1	1
21	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	14	8	3	1	0.5
22	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	24	12	10	1	0.5
23	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	9	7	2	1
24	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	38	13	9	1	1
25	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	17	10	7	1	1
26	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	45	13	10	2	1
27	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	34	13	7	2	1
28	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	33	13	9	2	1

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 10	Coordinates:	Date: May 25, 2022	Time: 9:05 am
Quadrat No. 4	N: 10°45'56.397"N	Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente	
Transect No. 10	E: 119°25'16.511"E	Vegetation type: Moderate	
		Weather: Sunny	

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Pototan	<i>Broguiera cylindrica</i>	Rhizophoraceae	46	5	1.5	W1	W2
2	Muddy	Pototan	<i>Broguiera cylindrica</i>	Rhizophoraceae	37	4	3	2	2
3	Muddy	Tangal	<i>Cerriops Tagal</i>	Rhizophoraceae	9	2	0.31	0.5	0.5

4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	36	5	0.32	2	2	2
5	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	10	2	0.3	0.5	0.5	
6	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	27	6	1	2	2	
7	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	15	2	0.34	2	1	
8	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	31	4	3	1.5	1	
9	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	30	4	3	2	1	
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	55	4	2	4	3	
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	47	5	4	1	1	
12	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	23	3.5	0.48	2	1	
13	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	12	2	0.36	1	1	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 10

Coordinates:
N: 10°45'56.397"N
E: 119°25'16.511"E

Date: May 25, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 9:45 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)		OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
								W1	W2	
1	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	57	7	3	1	1	
2	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	23	7	3	1	1	
3	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	56	7	3	2	2	
4	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	20	4	1	1	0.5	
5	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	13	4	1	1	1	
6	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	47	7	2	2	1	
7	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	26	6	1	1	1	
8	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	26	8	3	1	1	
9	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	21	9	3	2	1	
10	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	24	8	2	2	1	
11	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	17	4	1.5	1	1	
12	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	27	8	2	2	1	
13	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	23	9	3	2	1	
14	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	56	9	2	2	2	
15	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	33	7	4	1	1	
16	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	34	7	1	2	1	
17	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	40	8	2	2	2	
18	Muddy	Tangkal	<i>Ceriops Tagal</i>	Rhizophoraceae	37	7	3	1	1	
19	Muddy	Plag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	99	8	1	3	2	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 10

Coordinates:
N: 10°45'56.397"N
E: 119°25'16.511"E

Date: May 25, 2022
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente
Vegetation type: Moderate
Weather: Sunny

Time: 9:45 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	48	10	2	W1 2	W2 2
2	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	40	6	0.54	2	2
3	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	22	6	0.45	1.5	5
4	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	43	5	1	2	2
5	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	18	4	0.55	1	0.5
6	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	33	4	1	2	2
7	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	26	5	0.37	2	1
8	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	22	4	0.47	2	1
9	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	48	5	2	3	3
10	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	47	5	0.32	2	1
11	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	48	6	1	2	2
12	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	16	4	0.39	0.5	0.5
13	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	28	4	0.3	1	1
14	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	41	4	0.29	1	1
15	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	15	3	0.36	1	0.5

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 10

Coordinates:
N: 10°45'56.397"N
E: 119°25'16.511"E

Date: May 25, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 10:36 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	22	7	2	W1 0.5	W2 0.5
2	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	25	6	1.5	1	1
3	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	40	10	4	2	1
4	Muddy	Tangal	<i>Cerlops Tangal</i>	Rhozophoraceae	48	10	5	2	2

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 11

Coordinates:
N: 10°44'52.569"N
E: 119°25'16.175"E

Date: September 17, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 8:20 am

Quadrat No. 1
Transect No. 11

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	12	4	2	W1 0.5	Mangrove cuttings
2	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	12	3	1	1	0.5
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	22	7	3	1	1
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	40	8	3	1	1
5	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	16	5	2	1	0.5
6	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	12	2.5	2	0.5	0.5
7	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhizophoraceae	15	5	1.5	0.5	0.5
8	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	117	10	2	2	1
9	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	2.5	2	0.5	0.5
10	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	33	8	2.5	1	0.5

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 11

Coordinates:
N: 10°44'52.569"N
E: 119°25'16.175"E

Date: September 17, 2022
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente
Vegetation type: Moderate
Weather: Sunny

Time: 8:40 am

Quadrat No. 2
Transect No. 11

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	53	15	3	W1 3	W2 2
2	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	73	12	2	4	3
3	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	25	5	1	3	2
4	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	103	12	6	4	3
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	2	1.5	0.5	0.5
6	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	21	4	1.5	1	1
7	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	23	4	1	5	2
8	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	38	10	7	2	1
9	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	17	4	1	1	1
10	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhizophoraceae	14	2	1	0.5	0.5

11	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	11	3	2	0.5	0.5
12	Muddy	Tangal	<i>Cerriops Tagal</i>	Rhozophoraceae	10	3	0.5	2	1
13	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	17	3	1	2	1
14	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	61	12	3	5	4
15	Muddy	Tangal	<i>Cerriops Tagal</i>	Rhozophoraceae	10	3	0.2	0.5	0.5

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 11

Coordinates:
 N: 10°44'52.569"N
 E: 119°25'16.175"E

Quadrat No. 3
 Transect No. 11

Date: September 17, 2022

Time: 9:15 am

Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin

Vegetation type: Moderate

Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	48	12	5	W1 3	W2 2
2	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	45	10	1	2	2
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	43	10	6	1	1
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	22	6	3	1	1
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	56	10	7	1	1
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	39	10	7	1	1
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	44	10	7	2	1
8	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	18	5	3	1	1
9	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	42	10.5	9	1	1
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	37	10	7	1	1
11	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	12	3	2	0.5	0.5
12	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	22	7	4	2	1
13	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	14	4	2	0.5	0.5
14	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	11	4	2	1	1
15	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	34	10	6	1	1

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 11

Coordinates:
 N: 10°44'52.569"N
 E: 119°25'16.175"E

Quadrat No. 4
 Transect No. 11

Date: September 17, 2022

Time: 9:35 am

Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente

Vegetation type: Moderate

Weather: Sunny

OBSERVATIONS
(disturbance, threats,
uses, cuttings, garbage,
fauna)

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)		OBSERVATIONS
								W1	W2	
1	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	12	4	0.3	1	1	
2	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	53	10	0.5	3	3	
3	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	63	10	1	4	3	
4	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	8	4	0.5	1	1	
5	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	13	5	3	1	1	
6	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	28	8	2	2	2	
7	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	23	6	0.5	2	2	
8	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	22	6	3	2	1	
9	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	37	7	1	2	2	
10	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	40	7	2	2	1	
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	18	5	2	0.5	0.5	
12	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	12	5	2	0.5	0.5	
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	20	5	2	1	1	
14	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	30	6	0.5	1	1	
15	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	12	4	1	2	1	
16	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	10	4	1	0.5	0.5	
17	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	51	12	4	3	3	
18	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	14	5	2	1	1	
19	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	17	7	1	2	1	
20	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	26	8	2	2	1	
21	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	21	6	4	1	1	
22	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	24	8	2	1	1	
23	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	140	15	10	5	3	
24	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	19	6	1	2	1	
25	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	17	5	1.5	1	1	
26	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	35	11	5	2	1	
27	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	35	12	7	2	1	
28	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	43	12	5	2	2	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 11

Coordinates:
N: 10°44'52.569"N
E: 119°25'16.175"E

Date: September 17, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 10:02 am

OBSERVATIONS
(disturbance, threats,
uses, cuttings, garbage,
fauna)

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	W1	W2
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	72	11	7	2	2	2
2	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	12	4	3	1.5	1	1
3	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	37	8	6	2	1	1
4	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	16	5	3	1	1	1
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	56	10	7	2	1	1
6	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	13	5	2.5	0.5	0.5	0.5

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 11
Coordinates:
N: 10°44'52.569"N
E: 119°25'16.175"E
Date: September 17, 2022
Time:10:10 am
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente
Vegetation type:Moderate
Weather: Sunny

OBSERVATIONS
(disturbance, threats,
uses, cuttings, garbage,
fauna)

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	W1	W2
1	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	32	4	0.5	1	1	1
2	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	19	3	1	1	1	1
3	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	17	3	0.3	1	1	1
4	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	25	3	1	1	1	1
5	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	13	2.5	0.3	0.5	0.5	0.5
6	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	23	2.5	0.3	0.5	0.5	0.5
7	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhozophoraceae	32	4	2	1	1	1
8	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	28	4	0.3	1	1	1
9	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	28	3	1	1	1	1
10	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	26	3	1	1	1	1
11	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	21	2.5	0.5	0.5	0.5	0.5
12	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	21	3	1.5	0.5	0.5	0.5
13	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	25	3	0.3	0.5	0.5	0.5
14	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	19	3	1	0.5	0.5	0.5
15	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	30	3	1	1	1	1
16	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	16	2	0.2	1	1	1
17	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	21	3	1	0.5	0.5	0.5
18	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	32	4	1.5	1	1	1

19	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	26	3	0.2	1	1
20	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	25	3	1.5	0.5	0.5
21	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	29	3	0.2	1	1
22	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	24	3	1	1	1
23	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	36	4	0.5	2	1
24	Muddy	Plag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	10	4	3	0.5	0.5
25	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	24	10	6	1	1
26	Muddy	Plag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	19	4	1	2	1
27	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	28	10	7	1	1
28	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	47	11	4	2	2
29	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	21	7	6	1	1
30	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	42	11	8	2	1

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 11

Coordinates:
N: 10°44'52.569"N
E: 119°25'16.175"E

Quadrat No. 7
Transect No. 11

Date: September 17, 2022
Time:10:22 am
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type:Moderate
Weather: Sunny

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	40	10	6	W1	W2
2	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	55	10	7	1	1
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	29	7	4	2	1
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	60	10	5	3	2
5	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	16	5	1.5	0.5	0.5
6	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	13	3	2	1	1
7	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	21	7	2	1	1
8	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	100	5	2	4	2
9	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	13	6	3	1	0.5
10	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	31	10	6	2	1
11	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	12	5	3	1	1
12	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	22	7	5	2	1
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	55	11	3	2	2
14	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	28	7	4	2	1
15	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	27	7	4	2	1
16	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	14	4	2	2	1
17	Muddy	Pototan	<i>Bruguiera cylindrica</i>	Rhozophoraceae	21	7	2	1.5	1
18	Muddy	Pototan	<i>Bruguiera gymnorrhiza</i>	Rhozophoraceae	13	3	1	1	1
19	Muddy	Pototan	<i>Bruguiera sexangula</i>	Rhozophoraceae	19	4	1	1	1

20	Muddy	Palaypay	<i>Acrostichum speciosum</i>	Pteridaceae	8 pcs							
21	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	2	1	1	0.5			
22	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	3	1	1	0.5			
23	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhizophoraceae	18	3	1	1	0.5			
24	Muddy	Piag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	16	3	1	1	0.5			
25	Muddy	Piag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	14	3	1	1	0.5			

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 12

Coordinates:
N: 10°44'50.431"N
E: 119°25'19.901"E

Date: October 5, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Quadrat No. 1
Transect No. 12

Time: 8:02 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)		OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
								W1	W2	
1	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	104	8	1.5	3	3	
2	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	14	4	0.6	1	0.5	
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	3	0.4	0.5	0.5	
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	17	4	1	1	0.5	
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	9	3	1.5	0.5	0.5	
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	4	2	0.5	0.5	
7	Muddy	Tabao	<i>Lumnitzera racemosa</i>	Combretaceae	11	4	2	0.5	0.5	
8	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	3	0.6	0.5	0.5	
9	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	4	2	0.5	0.5	
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	4	1.6	0.5	0.5	
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	5	1	0.5	0.5	
12	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	5	1.5	0.5	0.5	
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	17	5	2	0.5	0.5	
14	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	3	1	0.5	0.5	
15	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	15	4	0.5	0.5	0.5	
16	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	19	5	0.6	0.5	0.5	
17	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	4	2	0.5	0.5	
18	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	4	2	0.5	0.5	
19	Muddy	Pagatpat	<i>Sonneratia alba</i>	Sonneratiaceae	16.5	4	1	0.5	0.5	
20	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	4	1	0.5	0.5	
21	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	4	2	0.5	0.5	
22	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	3	1.5	0.5	0.5	
23	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	4	2	0.5	0.5	
24	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	11	4	1.5	0.5	0.5	

25	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	10	4	1.5	0.5	0.5
26	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	12	5	2	0.5	0.5
27	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	13	6	2	0.5	0.5
28	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	18	5	0.5	0.5	0.5
29	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	17	8	2	0.5	0.5
30	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	17	5	2	0.5	0.5
31	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	10	4	1.5	0.5	0.5
32	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	11	5	2	0.5	0.5
33	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	11	5	2	0.5	0.5
34	Muddy	Plag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	11	4	2	0.5	0.5
35	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	21	6	1	0.5	0.5
36	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	32	7	2	0.5	0.5
37	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	18	4	2	0.5	0.5
38	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	29	5	0.5	0.5	0.5
39	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	40	8	2	0.5	0.5
40	Muddy	Plag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	50	8	2	0.5	0.5
41	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	13	3	2	0.5	0.5
42	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	11	2	0.5	0.5	0.5

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 12

Quadrat No. 2

Transect No. 12

Coordinates:

N: 10°44'50.431"N

E: 119°25'19.901"E

Date: October 5, 2022

Observer: Ricardo Tandoc, Maria Lilibeth Arrojo, Richard Valones and Cyril Valente

Vegetation type: Moderate

Weather: Sunny

Time: 8:15 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)		OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
								W1	W2	
1	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	64	12	2	3	2	Sunbird
2	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	41	10	2	2	2	
3	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	20	6	2	2	1	
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	12	4	1.5	1	0.5	
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	84	15	3	3	3	
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	29	5	1	2	2	
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	14	3	2	1	1	
8	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	30	7	3	1	1	
9	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	40	10	2	2	2	
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	18	5	2	2	1	
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	60	15	4	2	2	
12	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	65	12	4	3	2	
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	22	5	2	1	1	

14

Muddy

Bakaw lalaki

Rhizophora apiculata

Rhizophoraceae

26

10

2

1

1

15

Muddy

Bakaw lalaki

Rhizophora apiculata

Rhizophoraceae

15

6

2

1

1

16

Muddy

Pototan

Bruguiera Cylindrica

Rhizophoraceae

60

12

3

3

3

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 12

Coordinates:
N: 10°44'50.431"N
E: 119°25'19.901"E

Quadrat No. 3
Transect No. 12

Date: October 5, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 8:50 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	15	5	5	W1 0.5	W2 0.5
2	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	4	2	1	1
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	15	5	3	0.5	0.5
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	14	5	3	0.5	0.5
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	4	2	0.5	0.5
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	16	6	3	1	1
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	21	7	3	1	1
8	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	40	8	3	2	1
9	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	42	7	2	2	1
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	4	2	1	1
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	19	4	2	1	1
12	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	60	10	2	1	1
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	50	10	3	2	2
14	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	4	3	0.5	0.5
15	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	16	4	1	1	1
16	Muddy	Pototan	<i>Bruguiera Cylindrica</i>	Rhizophoraceae	70	12	0.3	3	2
17	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	70	12	3	2	2
18	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	22	5	1	2	1
19	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	4	2	0.5	0.5
20	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	15	5	2	1	1
21	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	40	10	4	2	1
22	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	43	7	3	2	1
23	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	55	8	2	1	1
24	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	3	1	1	1
25	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	17	4	3	1	1
26	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	6	3	1	1
27	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	5	3	1	1
28	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	3	1	0.5	0.5

29	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	4	2	0.5	0.5
30	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	5	2	1	1
31	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	23	6	4	1	1
32	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	6	3	0.5	0.5
33	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	14	7	2	1	1
34	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	48	8	0.6	2	2
35	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	4	1	1	1
36	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	15	5	2	1	1
37	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	4	2	0.5	0.5
38	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	4	2	1	1
39	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	15	3	1	1	1
40	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	6	2	1	1
41	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	8	2	1	1
42	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	15	8	3	1	1
43	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	8	2	1	1
44	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	30	6	2	0.5	0.5
45	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	5	3	1	1
46	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	25	8	8.5	2	1

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan

Plot No: 12

Quadrat No. 4

Transect No. 12

Coordinates:

N: 10°44'50.431"N

E: 119°25'19.901"E

Date: October 5, 2022

Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente

Vegetation type: Moderate

Weather: Sunny

Time: 9:01 am

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)		OBSERVATIONS (disturbance, threats, uses, cuttings, garbage, fauna)
								W1	W2	
1	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	23	8	2	2	1	WC Kingfisher
2	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	18	6	3	1	1	
3	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	8	1	1	1	
4	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	4	1	0.5	0.5	
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	10	4	1	0.5	0.5	
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	6	0.5	2	1	
7	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	22	6	1	2	2	
8	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	12	4	1	0.5	0.5	
9	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	13	5	1.5	1	1	
10	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	8	3	1	0.5	0.5	
11	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	8	3	1	0.5	0.5	
12	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	14	6	3	0.5	0.5	
13	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhizophoraceae	20	7	2	1	1	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 12

Coordinates:
N: 10°44'50.431"N
E: 119°25'19.901"E

Date: October 5, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 10:03 am

OBSERVATIONS
(disturbance, threats,
uses, cuttings, garbage,
fauna)

TREE NO.	SUBSTRATE	SPECIES	SCIENTIFIC NAME	FAMILY NAME	DBH/Girth (cm)	TH (m)	MH (m)	Crown Diameter (m)	W1	W2	OBSERVATIONS
1	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	65	12	4	3	3	2	Talisay
2	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	40	7	3	2	2	2	Dungon late
3	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	20	6	3	1	1	1	
4	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	22	5	2	2	2	1	
5	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	45	12	4	2	2	1	
6	Muddy	Bakaw lalaki	<i>Rhizophora apiculata</i>	Rhozophoraceae	40	10	4	1	1	1	
7	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	25	5	4	1	1	1	
8	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	35	10	4	2	2	1	
9	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	60	10	3	3	3	2	
10	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	12	4	3	0.5	0.5	0.5	
11	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	15	7	4	1	1	1	
12	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	12	4	3	0.5	0.5	0.5	
13	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	10	4	3	0.5	0.5	0.5	
14	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	14	5	4	1	1	1	
15	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	14	4	2	1	1	1	
16	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	40	7	4	1	1	1	
17	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	70	15	3	3	3	3	
18	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	25	5	2	2	2	1	
19	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	70	20	1.5	3	3	2	
20	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	75	15	4	4	4	3	
21	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	25	6	3	2	2	1	
22	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	35	10	3	2	2	2	
23	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	20	7	2	2	2	1	
24	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	56	15	2	2	2	2	
25	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	15	5	4	0.5	0.5	0.5	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 12

Coordinates:
N: 10°44'50.431"N
E: 119°25'19.901"E

Date: October 5, 2022
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente
Vegetation type: Moderate
Weather: Sunny

Time: 9:45 am

OBSERVATIONS
(disturbance, threats,
uses, cuttings, garbage,
fauna)

TREE NO. SUBSTRATE SPECIES SCIENTIFIC NAME FAMILY NAME DBH/Girth (cm) TH (m) MH (m) Crown Diameter (m)

1	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	85	12	2	W1	W2	Sunbird
2	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	25	7	2	1	1	
3	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	25	7	2	2	1	
4	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	27	8	2	1	1	
5	Muddy	Pototan	<i>Broguiera Cylindrica</i>	Rhozophoraceae	29	10	2	2	2	
6	Muddy	Plag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	75	10	1	2	1	
7	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	80	12	1	3	2	
8	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	40	10	4	2	1	
9	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	70	12	3	3	2	
10	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	35	8	4	1	1	
11	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	30	6	3	1	1	
12	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	50	12	4	2	1	
13	Muddy	Plag-ao	<i>Xylocarpus moluccensis</i>	Meliaceae	30	6	2	1	1	
14	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	40	8	4	2	1	
15	Muddy	Bakaw Babae	<i>Rhizophora macrunata</i>	Rhozophoraceae	70	15	5	3	2	
16	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	12	2	0.5	1	1	
17	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	27	4	1	2	2	
18	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	40	6	1	2	1	
19	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	40	8	0.5	1	1	
20	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	45	8	1.5	2	1	
21	Muddy	Tabigi	<i>Xylocarpus granatum</i>	Meliaceae	100	6	1	3	2	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 12
Coordinates: N: 10°44'50.431"N E: 119°25'19.901"E
Date: October 5, 2022 Time:10:56 am
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type:Moderate
Weather: Sunny

OBSERVATIONS
(disturbance, threats,
uses, cuttings, garbage,
fauna)

TREE NO. SUBSTRATE SPECIES SCIENTIFIC NAME FAMILY NAME DBH/Girth (cm) TH (m) MH (m) Crown Diameter (m)

1	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	54	8	1.5	W1	W2	
2	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	35	8	3	2	1	
3	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	18	5	2	1	1	
4	Muddy	Tangal	<i>Cerlops Tagal</i>	Rhozophoraceae	21	10	2	1	1	

5	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	25	8	3	1	1
6	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	10	4	2	0.5	0.5
7	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	29	10	3	2	1
8	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	41	8	4	1	1
9	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	12	4	3	0.5	0.5
10	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	20	7	4	0.5	0.5
11	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	25	8	0.6	0.5	0.5
12	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	34	8	3	0.5	0.5
13	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	30	8	3	1	1
14	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	45	8	0.5	2	1
15	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	30	8	0.6	1	1
16	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	10	3	0.2	1	1
17	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	30	8	1	1	1
18	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	30	7	3	0.5	0.5
19	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	26	9	4	1	1
20	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	48	10	0.5	2	2
21	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	20	10	0.5	2	1
22	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	34	10	3	1	1
23	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	28	8	0.5	2	1
24	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	30	8	3	1	1
25	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	54	7	1	2	1
26	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	10	2	0.5	0.5	0.5
27	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	40	8	1	1	1
28	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	40	8	0.6	1	1
29	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	12	4	2	0.5	0.5
30	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	20	7	1	1	1
31	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	30	9	0.5	2	2
32	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	25	7	2	2	1
33	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	26	6	2	1	1
34	Muddy	Tangal	<i>Ceriops Tagal</i>	Rhozophoraceae	29	8	3	1	1

DATA SHEET FOR MANGROVE ASSESSMENT (Inside 2 x 2m plot)

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No:1		Coordinates: N: 10°45'24.769"N E: 119°25'6.939"E		Date: March 23, 2022 Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin Vegetation type:Moderate Weather: Sunny		Time:8:10 am	
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
1	1	Rhizophora apiculata			11	0.12	
Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No:1		Coordinates: N: 10°45'24.769"N E: 119°25'6.939"E		Date: March 23, 2022 Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente Vegetation type:Moderate Weather: Sunny		Time:8:25 am	
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
2	1	Rhizophora apiculata			2	0.8	
Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No:2		Coordinates: N: 10°45'21.26"N E: 119°25'7.09"E		Date: March 23, 2022 Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin Vegetation type:Moderate Weather: Sunny		Time:8:50 am	
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS

1 1 Rhizophora apiculata

5

0.9

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No: 2		Quadrat No. 2 Transect No. 2		Coordinates: N: 10°45'21.26"N E: 119°25'7.09"E		Date: March 23, 2022 Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Roniel Solana and Erwin Barvin Vegetation type: Moderate Weather: Sunny		Time: 9:10 am	
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS		
2		Broguera Cylindrica	9	0.12	133	0.9			
		Rhizophora apiculata							
Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No: 2		Quadrat No. 3 Transect No. 2		Coordinates: N: 10°45'21.26"N E: 119°25'7.09"E		Date: March 23, 2022 Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin Vegetation type: Moderate Weather: Sunny		Time: 9:46 am	
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS		
3	1	Sonneratia alba	8	0.13					
Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No: 3		Quadrat No. 2 Transect No. 3		Coordinates: N: 10°45'17.772"N E: 119°25'7.324"E		Date: April 8, 2022 Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Roniel Solana and Erwin Barvin Vegetation type: Moderate Weather: Sunny		Time: 8:05 am	
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS		
2	1	Rhizophora apiculata	2	0.11					

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No: 3			Quadrat No. 3 Transect No. 3	Coordinates: N: 10°45'17.772"N E: 119°25'7.324"E	Date: April 8, 2022 Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin Vegetation type: Moderate Weather: Sunny	Time: 8:40 am		
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS	
3	1	<i>Broguera cylindrica</i>			59	0.9		
Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No: 4			Quadrat No. 2 Transect No. 4	Coordinates: N: 10°45'14.317"N E: 119°25'8.906"E	Date: April 20, 2022 Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Roniel Solana and Erwin Barvin Vegetation type: Moderate Weather: Sunny	Time: 7:50 am		
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS	
2	1	<i>Broguera cylindrica</i>			30	0.80		
Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No: 4			Quadrat No. 3 Transect No. 4	Coordinates: N: 10°45'14.317"N E: 119°25'8.906"E	Date: April 20, 2022 Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin Vegetation type: Moderate Weather: Sunny	Time: 8:05 am		
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS	
3	1	<i>Broguera sexangula</i>			105	0.9		

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No: 5				Quadrat No. 1 Transect No. 5	Coordinates: N: 10°45'13.972"N E: 119°25'14.475"E	Date: April 20, 2022 Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin Vegetation type: Moderate Weather: Sunny	Time: 8:35 am
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
1	1	<i>Rhizophora apiculata</i>			3	0.10	
Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No: 5				Quadrat No. 2 Transect No. 5	Coordinates: N: 10°45'13.972"N E: 119°25'14.475"E	Date: April 20, 2022 Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Roniel Solana and Erwin Barvin Vegetation type: Moderate Weather: Sunny	Time: 8:48 am
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
2	1	<i>Broguiera Sexangula</i>	13	0.12			
Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No: 6				Quadrat No. 1 Transect No. 6	Coordinates: N: 10°45'10.059"N E: 119°25'14.052"E	Date: April 21, 2022 Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin Vegetation type: Moderate Weather: Sunny	Time: 7:20 am
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
1	1	<i>Rhizophora apiculata</i>	13	0.12			
	1	<i>Brogueira Cylindrica</i>			5	0.9	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No. 6

Date: April 21, 2022
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Coordinates:
N: 10°45'10.059"N
E: 119°25'14.052"E

Quadrat No. 2
Transect No. 6

QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
-------------	----------	---------	---------------------------	----------------	----------------	----------------	---------

2	1	<i>Cerriops tangal</i>	1	0.11			
---	---	------------------------	---	------	--	--	--

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No. 6

Date: April 21, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Coordinates:
N: 10°45'10.059"N
E: 119°25'14.052"E

Quadrat No. 3
Transect No. 6

QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
-------------	----------	---------	---------------------------	----------------	----------------	----------------	---------

3	1	<i>Broguiera Sexangula</i>	7	0.12			
---	---	----------------------------	---	------	--	--	--

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No. 7

Date: May 13, 2022
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Ricben Armenia, and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Coordinates:
N: 10°45'7.617"N
E: 119°25'16.66"E

Quadrat No. 2
Transect No. 7

QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
-------------	----------	---------	---------------------------	----------------	----------------	----------------	---------

2	1	<i>Cerriops tangal</i>	4	0.12			
---	---	------------------------	---	------	--	--	--

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 7

Quadrat No. 3
Transect No. 7

Coordinates:
N: 10°45'7.617"N
E: 119°25'16.66"E

Date: May 13, 2022
Time:9:03 am
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type:Moderate
Weather: Sunny

QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
3	1	<i>Brogueira Cylindrica</i>	3	0.13			
3	1	<i>Ceriops Tangal</i>			10	0.9	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 8

Quadrat No. 2
Transect No. 8

Coordinates:
N: 10°45'24.691"N
E: 119°25'18.056"E

Date: May 13, 2022
Time:10:05 am
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Ricben Armenia, and Erwin Barvin
Vegetation type:Moderate
Weather: Sunny

QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
2	1	<i>Ceriops Tangal</i>			55	0.10	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 9

Quadrat No. 1
Transect No. 9

Coordinates:
N: 10°45'1.033"N
E: 119°25'17.984"E

Date: May 13, 2022
Time:11:05 am
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type:Moderate
Weather: Sunny

QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
1	1	<i>Rhizophora mucronata</i>	3	0.14			

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 10

Quadrat No. 1
Transect No. 10

Coordinates:
N: 10°44'56.397"N
E: 119°25'16.511"E

Date: May 25, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 8:03 am

QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
1	1	Broguiera Sexangula			2	1.10	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 10

Quadrat No. 2
Transect No. 10

Coordinates:
N: 10°44'56.397"N
E: 119°25'16.511"E

Date: May 24, 2022
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones and Cyril Valente
Vegetation type: Moderate
Weather: Sunny

Time: 8:15 am

Time: 8:15 am

QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
2	1	Brogueira Cylindrica			2	0.8	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 10

Quadrat No. 4
Transect No. 10

Coordinates:
N: 10°44'56.397"N
E: 119°25'16.511"E

Date: May 25, 2022
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones, and Cyril Valente
Vegetation type: Moderate
Weather: Sunny

Time: 9:05 am

Time: 9:05 am

QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
4	1	Brogueira Cylindrica	2	0.11	1	0.7	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 10

Quadrat No. 6
Transect No. 10

Coordinates:
N: 10°44'56.397"N
E: 119°25'16.511"E

Date: May 25, 2022
Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Richard Valones, and Cyril Valente
Vegetation type: Moderate
Weather: Sunny

Time: 9:45 am

Time: 9:45 am

QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
6	1	Ceriops Tangal	1	0.11	2	0.8	

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No: 11			Quadrat No. 2 Transect No. 11	Coordinates: N: 10°44'52.569"N E: 119°25'16.175"E	Date: September 17, 2022 Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Ricben Armenia, and Erwin Barvin Vegetation type: Moderate Weather: Sunny			Time: 8:40 am		
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS			
2	1	<i>Brogueira Cylindrica</i>	25	0.13						
Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No: 11			Quadrat No. 6 Transect No. 11	Coordinates: N: 10°44'52.569"N E: 119°25'16.175"E	Date: September 17, 2022 Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin Vegetation type: Moderate Weather: Sunny			Time: 10:10 am		
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS			
6	1	<i>Ceriops Tangal</i>			2	0.9				
Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No: 12			Quadrat No. 2 Transect No. 12	Coordinates: N: 10°44'50.431"N E: 119°25'19.901"E	Date: October 5, 2022 Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Ricben Armenia, and Erwin Barvin Vegetation type: Moderate Weather: Sunny			Time: 8:15 am		
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS			
2	1	<i>Rhizophora apiculata</i>	1	0.11						
Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan Plot No: 12			Quadrat No. 4 Transect No. 12	Coordinates: N: 10°44'50.431"N E: 119°25'19.901"E	Date: October 5, 2022 Observer: Ricardo Tandoc, Maria Lilibeth Arojo, Ricben Armenia, and Erwin Barvin Vegetation type: Moderate Weather: Sunny			Time: 9:01 am		
QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS			
4	1	<i>Rhizophora apiculata</i>	41	0.12						

Location: Sitio Balingbing, Bgy. Alacalian, Taytay, Palawan
Plot No: 12

Quadrat No. 7
Transect No. 12

Coordinates:
N: 10°44'50.431"N
E: 119°25'19.901"E

Date: October 5, 2022
Observer: Francis Abe Bose, Joseph Agbisit, Roniel Solana and Erwin Barvin
Vegetation type: Moderate
Weather: Sunny

Time: 10:56 am

QUADRAT NO.	TREE NO.	SPECIES	SAPLING COUNT (<5 CM DBH)	AVERAGE HEIGHT	SEEDLING COUNT	AVERAGE HEIGHT	REMARKS
7	1	<i>Ceriops tangal</i>			26	0.9	