



Republic of the Philippines
Department of Environment and Natural Resources
PENRO MARINDUQUE

February 13, 2023

MEMORANDUM

**FOR : The Regional Executive Director
DENR - MIMAROPA Region**

**THRU : The OIC, Assistant Regional Director
for Technical Services**

FROM : The In-Charge, Office of the PENR

**SUBJECT : SUBMISSION OF THE REPORT ON ASIAN
WATERBIRDS CENSUS FOR CY 2023 IN THE
PROVINCE OF MARINDUQUE**

Respectfully submitting the report on the conducted Asian Waterbirds Census in the Province of Marinduque this CY 2023. The activity was joined by various volunteers from academe, local government units and representatives from DENR – MIMAROPA Regional Office.

Due to the weather and water levels in the sites identified for AWC, the count as of this year was much lower than that of last year. However, there are still species which are notably present and high in number such as the Philippine Wild Duck (*Anas luzonica*).

The importance of migratory birds and wetland areas was disseminated to increase awareness of the local community.

Please see attached photos, charts and tables for further reference on the conduct and result of the activity.

For information and record.

“For and in the absence of the PENR Officer”

ENGR. CYNTHIA U. LOZANO
Chief, Technical Services Division
In-Charge, Office of the PENRO



Republic of the Philippines
Department of Environment and Natural Resources
PENRO MARINDUQUE

January 31, 2023

MEMORANDUM

FOR : The OIC, PENR Officer

**THRU : The Chief, Technical Services Division
The Chief, Conservation and Development Section
The Chief, Biodiversity Conservation Unit**

FROM : The Staff, Biodiversity Conservation Unit

SUBJECT : ASIAN WATERBIRDS CENSUS FOR CY 2023 IN THE PROVINCE OF MARINDUQUE

Relative to the sub-program of the Wildlife Resources Conservation, the Asian Waterbirds Census (AWC), which is the annual census of waterbirds every January, was conducted in the Province of Marinduque from January 24 to 27, 2023.

The identified sites included Barangays Tamayo and Hupi in the Municipality of Santa Cruz; Barangay Kay Duke in the Municipality of Torrijos and Barangay Capayang in the Municipality of Mogpog. The four (4) identified sites are all within the mangrove areas, two are operationalized fishponds while the other two are abandoned.

There was a total of 635 heads of various bird species observed during the activity in four (4) sites that were mentioned. Unexpectedly, of all the 21 species recorded, the Philippine Duck (*Anas luzonica*) has the highest number of count this year, and was observed most at Barangay Kayduke, Torrijos which always had the lowest count of species every year since 2017. On the other hand, it was the Black-winged Stilts (*Himantopus himantopus*) found in Barangay Hupi which topped the count based on species per barangay.

Based on the three-year trend as shown in Figure 2, there was a sudden drop of numbers in the total count of the Little Egrets (*E. garzetta*). The reason may be attributed to the gloomy and rainy weather, as well as the water level in the fishponds where they usually feed in the previous years. Species like Grey Plover (*P. squatarola*), Lesser - Sand Plover (*C. mongolus*), Grey - tailed Tattler (*H. brevipes*) and Common Sandpiper (*Actitis hypoleucos*, which were recorded last year were not observed this year on the same sites. However, the Pacific Golden Plover (*Pluvialis fulva*) was recorded in this year's census with a count of 32 in the operationalized fishpond located in Barangay Capayang, Mogpog. Along with the said species are the Whimbrel (*N. phaeopus*) and Greenshank (*T. nebularia*).

The total count of 635 this 2023 is much lower than the previous year's 1,627 heads. Factors such as water level which reduced the chances of the wetland birds to feed, and the rainy weather, resulted to the lesser appearance of the usual species that were seen in the AWC 2022. However, despite the weather status and state of the sites, species like egrets, whimbrels, stilts and wild ducks remained numerous and present every year. Moreover, the period of count was a week later than last year's activity.

The usual participants of the Annual Asian Waterbirds Census included representatives from Marinduque State College, Provincial Government – Environment and Natural Resources Office of Marinduque, LGU Santa Cruz, LGU Mogpog and PENRO Marinduque personnel. Representatives from APO Mandin, a non-government organization, Protected Area Management and Biodiversity Conservation Section (PAMBCS) and Coastal Resources and Foreshore Management Section (CRFMS) of DENR MIMAROPA Regional Office personnel also joined in this year's activity. The team coordinated with the barangay officials of the respective sites as courtesy call and informed them on the purpose of the activity.

Please see attached site maps, photos taken during the waterbirds census, AWC prescribed forms, graphs and charts showing the figures and variances on the present and previous counts.

For information, record and further instructions.



CORAZON R. PELAEZ
FTI, Biodiversity Conservation Unit



RANDY R. PANTOJA
FTI, Biodiversity Conservation Unit

Asian Waterbird Census (Southeast Asia)

Please return to your National Co-ordinator, Asian Waterbird Census, Protected Areas and Wildlife Bureau, Quezon Avenue, Diliman, Quezon City (before the end of March)

Country:
PHILIPPINES



Name of Site: **Kay Duke Abandoned Fishpond**

Date: **January 24, 2023**

Province/State/Prefecture: **Marinduque**

Nearest Large Town: **Torrijos**

Site Code (only for official use):

Type: A - Aerial, ☒ E - On foot, B - By boat, M - Mixed

Coverage: V-25%, W-25-50%, ☒ X-50-75%, Y-75-99%, Z-100%

Has the site been counted before?

Yes ☒ No ☐

Waterfowl Counts

Little Grebe *Tachybaptus ruficollis*

CORMORANTS & DARTERS

Great Cormorant *Phalacrocorax carbo*

Indian Shag *P. fuscicollis*

Little Cormorant *P. niger*

Unidentified cormorants

Oriental Darter *Anhinga melanogaster*

HERONS & EGRETS

Great Bittern *Botaurus stellaris*

Yellow Bittern *Ixobrychus sinensis*

Schrenck's Bittern *I. eurhythmus*

Cinnamon Bittern *I. cinnamomeus*

Black Bittern *I. flavicollis*

Japanese Night Heron *Gorsachius goisagi*

Malayan Night Heron (Tiger Bittern) *G. melanolophus*

Black-crowned Night Heron *Nycticorax nycticorax*

Rufous Night Heron *N. caledonicus*

Indian Pond Heron *Ardeola grayii*

Chinese Pond Heron *A. bacchus*

Javan Pond Heron *A. speciosa*

Cattle Egret *Bubulcus ibis*

Striated (Little Green) Heron *Butorides striatus*

Eastern Reef Egret *Egretta sacra*

Chinese (Swinhoe's) Egret *E. eulophotes*

Little Egret *E. garzetta*

4 Intermediate Egret *E. intermedia*

Great Egret *E. alba*

Purple Heron *Ardea purpurea*

Grey Heron *A. cinerea*

Great-billed Heron *A. sumatrana*

Unidentified herons and egrets

STORKS

Milky Stork *Mycteria cinerea*

Painted Stork *M. leucocephala*

Asian Openbill *Anastomus oscitans*

Black Stork *Ciconia nigra*

Wooly-necked Stork *C. episcopus*

Storm's Stork *C. stormi*

Black-necked Stork *Ephippiorhynchus asiaticus*

Lesser Adjutant *Leptoptilos javanicus*

Greater Adjutant *L. dubius*

Unidentified storks

IBISES & SPOONBILLS

Black-headed (White) Ibis *Threskiornis melanocephalus*

White-shouldered Ibis *Pseudibis davisoni*

Glossy Ibis *Plegadis falcinellus*

White Spoonbill *Platalea leucorodia*

Black-faced Spoonbill *P. minor*

Giant Ibis *Thaumatibis gigantea*

Unidentified Spoonbills

GEESE & DUCKS

Spotted Whistling Duck *Dendrocygna guttata*

Fulvous (Large) Whistling Duck *D. bicolor*

Wandering Whistling Duck *D. arcuata*

Lesser Whistling Duck (Lesser Tree Duck) *D. javanica*

Greylag Goose *Anser anser*

Bar-headed Goose *A. indicus*

Ruddy Shelduck *Tadorna ferruginea*

Common Shelduck *T. tadorna*

White-winged Wood Duck *Cairina scutulata*

Comb Duck *Sarkidiornis melanotos*

Indian Cotton Teal *Nettapus coromandelianus*

Eurasian Wigeon *Anas penelope*

Falcated Teal *A. falcata*

Gadwall *A. strepera*

Common (Green-winged) Teal *A. crecca*

Grey Teal *A. gibberifrons*

Mallard *A. platyrhynchos*

Spot-billed Duck *A. poecilorhyncha*

47 Philippine Duck *A. luzonica*

Northern Pintail *A. acuta*

Garganey *A. querquedula*

Northern Shoveler *A. clypeata*

Red-crested Pochard *Netta rufina*

Common Pochard *Aythya ferina*

Baer's Pochard *A. baeri*

Ferruginous Duck *A. nyroca*

Tufted Duck *A. fuligula*

Goosander *M. merganser*

Unidentified ducks

CRANES

Common Crane *Grus grus*

Sarus Crane *G. antigone*

RAILS, GALLINULES & COOTS

Water Rail *Rallus aquaticus*

Slaty-breasted Rail *R. striatus*

Banded Rail *R. philippensis*

Barred Rail *R. torquatus*

Red-legged Crake *Rallina fasciata*

Slaty-legged Crake *R. eurizonoides*

Baillon's Crake *Porzana pusilla*

Ruddy Crake *P. fusca*

Band-bellied Crake *P. paykullii*

Spotless Crake *P. tabuensis*

White-browed Crake *P. cinereus (Poliolimnas cinereus)*

Brown Crake *Amauromis akool*

Bush-Hen *A. olivacea*

White-breasted Waterhen *A. phoenicurus*

Watercock *Gallixrex cinerea*

☐ Moorhen <i>Gallinula chloropus</i> ☐ Purple Swampphen <i>Porphyrio porphyrio</i> ☐ Common Coot <i>Fulica atra</i> FINFOOT & JACANAS ☐ Masked Finfoot <i>Heliopais personata</i> ☐ Comb-crested Jacana <i>Irediparra gallinacea</i> ☐ Pheasant-tailed Jacana <i>Hydrophasianus chirurgus</i> ☐ Bronze-winged Jacana <i>Metopidius indicus</i> SHOREBIRDS- WADERS ☐ Painted Snipe <i>Rostratula benghalensis</i> ☐ Crab Plover <i>Dromas ardeola</i> ☐ Black-winged Stilt <i>Himantopus himantopus</i> ☐ Australian (White-headed) Stilt <i>H. leucocephalus</i> ☐ Avocet <i>Recurvirostra avosetta</i> ☐ Great Thick-knee <i>Esacus recurvirostris</i> ☐ Beach Thick-knee <i>E. magnirostris</i> ☐ Oriental Pratincole <i>Glareola maldivarum</i> ☐ Little Pratincole <i>G. lactea</i> ☐ Northern Lapwing <i>Vanellus vanellus</i> ☐ River Lapwing <i>V. duvaucelii</i> ☐ Grey-headed Lapwing <i>V. cinereus</i> ☐ Red-wattled Lapwing <i>V. indicus</i> ☐ Pacific Golden Plover <i>Pluvialis fulva</i> ☐ Grey Plover <i>P. squatarola</i> ☐ Long-billed Plover <i>Charadrius placidus</i> ☐ Little Ringed Plover <i>C. dubius</i> ☐ Kentish Plover <i>C. alexandrinus</i> ☐ Malaysian Plover <i>C. peronii</i> ☐ Mongolian Plover <i>C. mongolus</i> ☐ Greater Sand Plover <i>C. leschenaultii</i> ☐ Oriental Plover <i>C. veredus</i> ☐ Black-tailed Godwit <i>Limosa limosa</i> ☐ Bar-tailed Godwit <i>L. lapponica</i> ☐ Little Curlew <i>Numenius minutus</i> ☐ Whimbrel <i>N. phaeopus</i> ☐ Eurasian Curlew <i>N. arquata</i> ☐ Far Eastern Curlew <i>N. madagascariensis</i> ☐ Marsh Sandpiper <i>T. stagnatilis</i> ☐ Greenshank <i>T. nebularia</i> ☐ Nordmann's Greenshank <i>T. guttifer</i> ☐ Green Sandpiper <i>T. ochropus</i> ☐ Wood Sandpiper <i>T. glareola</i> ☐ Terek Sandpiper <i>Xenus cinereus</i> ☐ Common Sandpiper <i>Actitis hypoleucos</i>	☐ Grey-tailed (Grey-rumped) Tattler <i>Heteroscelus brevipes</i> ☐ Ruddy Turnstone <i>Arenaria interpres</i> ☐ Red-necked Phalarope <i>Phalaropus lobatus</i> ☐ Eurasian Woodcock <i>Scolopax rusticola</i> ☐ Pintail Snipe <i>Gallinago stenura</i> ☐ Swinhoe's Snipe <i>G. megala</i> ☐ Common Snipe <i>G. gallinago</i> ☐ Asiatic Dowitcher <i>Limnodromus semipalmatus</i> ☐ Red Knot <i>Calidris canutus</i> ☐ Great Knot <i>C. tenuirostris</i> ☐ Sanderling <i>C. alba</i> ☐ Red-necked (Rufous-necked) Stint <i>C. ruficollis</i> ☐ Temminck's Stint <i>C. temminckii</i> ☐ Long-toed Stint <i>C. subminuta</i> ☐ Sharp-tailed Sandpiper <i>C. acuminata</i> ☐ Dunlin <i>C. alpina</i> ☐ Curlew Sandpiper <i>C. ferruginea</i> ☐ Spoon-billed Sandpiper <i>Eurynorhynchus pygmeus</i> ☐ Broad-billed Sandpiper <i>Limicola falcinellus</i> ☐ Unidentified shorebirds GULLS, TERNS & SKIMMERS ☐ Herring Gull <i>Larus argentatus</i> ☐ Brown-headed Gull <i>L. brunnicephalus</i> ☐ Black-headed Gull <i>L. ridibundus</i> ☐ Saunders' Gull <i>L. saundersi</i> ☐ Unidentified gulls ☐ Whiskered Tern <i>Chlidonias hybridus</i> ☐ White-winged Black Tern <i>C. leucopterus</i> ☐ Gull-billed Tern <i>Gelochelidon nilotica</i> ☐ Caspian Tern <i>Hydroprogne caspia</i> ☐ Indian River Tern <i>Sterna aurantia</i> ☐ Common Tern <i>S. hirundo</i> ☐ Black-naped Tern <i>S. sumatrana</i> ☐ Black-bellied Tern <i>S. melanogaster</i> ☐ Little Tern <i>S. albifrons</i> ☐ Great Crested Tern <i>S. bergii</i> ☐ Lesser Crested Tern <i>S. bengalensis</i> ☐ Unidentified terns ☐ Indian Skimmer <i>Rynchops albigollis</i> ADDITIONAL SPECIES White Collared Kingfisher - 23 White-eared brown doves - 8
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USEFUL SITE INFORMATION: (please circle the relevant figures)

CONDITION OF WETLAND: 1. Wet (water present), 2. Totally dry, 3. Totally frozen

PROTECTION 1. By Government, 2. By Tradition, 3. Private Ownership, 4. Unprotected, 0. Unknown

THREATS AND USES: 0 Unknown, 1 None, 2 Sedimentation, 3 Excessive overgrowth of vegetation, 4 Cutting/clearance of vegetation, 5 Eutrophication, 6 Agriculture along drying margins, 7 Excessive cattle grazing, Pollution by: 8 domestic sewage, 9 solid waste, A industrial waste, B oil, C pesticides, D fertilizers, E Mining, F Hunting/trapping/poaching of birds, G Little fishing, H Large scale fishing, I Partial reclamation, J Complete reclamation, K Dam/barrage construction, L Tourism/recreation

TIME OF COUNT: **START:** 6:10 am **FINISH:** 8:47 am

PARTICIPANT(S) NAME(S) AND ADDRESS(ES):

RANDY R. PANTOJA, PENRO - Marinduque
DANTE L. DE LUNA, PG-ENRO Marinduque
IRISH A. MENORCA, DENR - MIMAROPA
JOHN ANDREW M. MAGCULANG, PENRO - Marinduque
RONALD S. ATIENZA, LDRMO - MOGPOG

JOVEN M. LILLES, NGO - APO MANDIN
DOREEN S. MASCAREÑAS, MSC - School Of Agriculture
MARIE GRACE S. DELA CUEVA, DENR - MIMAROPA
BRIAN INIGO F. LEANO, PENRO - Marinduque

Asian Waterfowl Census (Site Form)



Please return to the National Co-ordinator, Asian Waterbird Census, Protected Areas and Wildlife Bureau, Quezon Avenue, Diliman, Quezon City (before the end of March)

COUNTRY:

PHILIPPINES

NAME OF SITE: **Kay Duke Abandoned Fishpond**

DATE: January 24, 2023

ALTITUDE:

m above sea level

PROVINCE/STATE/PREFECTURE: **Marinduque**

AREA:

NEAREST LARGE TOWN:

Torrijos

50.00 has.

ha/km

CO-ORDINATES:

deg. **13°** min. **22' 30"**

N/S

SITE CODE:

deg. **122°** min. **8' 35"**

E

(For official use only)

WETLAND TYPE: (please circle the relevant figures)

- | | |
|--|---|
| 0 Open seas, bays, straits | 6 Reservoirs, barrages, tanks |
| 1 Estuaries, tidal mudflats, salt pans | 7 Gravel pits, mineral workings, mining pools |
| 2 Brackish or saline lakes, lagoons, salt pans | 8 Fish ponds, shrimp ponds (unoperationalized fishpond) |
| 3 Rivers, streams, canals, drains | 9 Grassland, arable land |
| 4 Freshwater marshes, flooded areas | 10 Mangrove, nipah |
| 5 Freshwater lakes, ponds | 11 Freshwater swamp forest, peat swamp forest |

If any other type, please specify:

DESCRIPTION SITE: (please circle the relevant figures)

- | | |
|--|--|
| a. Month of maximum flooding: | b. Annual rainfall: mm |
| c. Source: 1. Local rains 2. River/stream 3. Sea 4. Other 0. Unknown | e. Tidal variation: 1. Present 2. Absent 0. Unknown |
| d. Maximum depth of water in meters: m | |
| f. Salinity: 1. Freshwater 2. Brackish 3. Saline 0. Unknown | |
| g. Is the site: 1. Permanent 2. Temporary 3. Semi-permanent 0. Unknown | (Mangrove converted fishpond more than 30 years ago) |
| h. Vegetation cover: 1. None 2. Half area 3. Complete 4. Recently cleared 0. Unknown | (surrounded by few mangrove vegetation) |
| i. Vegetation type: 1. Growing on bank 2. Submerged in water 3. Free floating 4. Floating-leaved rooted 5. Emergent 0. Unknown | |
| j. Protection/conservation status: 1. By Government 2. By tradition 3. Private ownership 4. Unprotected 0. Unknown | |
| k. Fishing: 1. None 2. Little 3. Moderate 4. Large scale 0. Unknown | |
| l. Hunting/trapping/poaching of birds: 1. None 2. Little 3. Moderate 4. Large scale 0. Unknown | |
| m. Agriculture: 1. None 2. Little 3. Moderate 4. Large scale 0. Unrecorded | |
| n. Cattle grazing: 1. None 2. Little 3. Moderate 4. Large scale 0. Unrecorded | |
| o. Threats/uses: 0. Unknown 1. None 3. Excessive over growth of vegetation 4. Cutting/clearance of vegetation 5. Eutrophication 6. Agriculture along dry margins, Excessive cattle grazing 8. Partial/complete reclamation 9. Dam/barrage construction 10. Tourism | |

If any other type of threats/uses, please specify:

- p. Pollution by: 1. Domestic sewage 2. Solid waste 3. Industrial waste 4. Oil 5. Pesticides 6. Fertilisers 7. Mining

If any other type of pollution, please specify:

- q. Active Conservation measures by: 0. Unknown 1. Local Government 2. National Government
3. Managed by conservation group (including local community) 4. No management

ADDITIONAL COMMENTS:

Outline map of wetland count unit (limit of the area covered by the count) with important geographical features (cities, roads, rivers, hills) included. Reverse of sheet may be used if necessary. Attach a copy of map if available.



PARTICIPANT(S) NAME(S) AND ADDRESS(ES):

RANDY R. PANTOJA, PENRO - Marinduque
DANTE L. DE LUNA, PG-ENRO Marinduque
IRISH A. MENORCA, DENR - MIMAROPA
JOHN ANDREW M. MAGCULANG, PENRO - Marinduque
RONALD S. ATIENZA, LDRMO - MOGPOG

JOVEN M. LILLES, Provincial Tourism Office
DOREEN S. MASCAREÑAS, MSC - School Of Agriculture
MARIE GRACE S. DELA CUEVA, DENR - MIMAROPA
BRIAN INIGO F. LEANO, PENRO - Marinduque

Asian Waterbird Census (Southeast Asia)

Please return to your National Co-ordinator, Asian Waterbird Census, Protected Areas and Wildlife Bureau, Quezon Avenue, Diliman, Quezon City (before the end of March)

Country:

PHILIPPINES



Name of Site: **Tamayo Mangroveswamp/ Fishpond**

Date: **January 25, 2023**

Province/State/Prefecture: **Marinduque**

Nearest Large Town: **Santa Cruz**

Site Code (only for official use):

Type: A - Aerial, E - On foot, B - By boat, M - Mixed

Coverage: V-25%, W-25-50%, X-50-75%, Y-75-99%, Z-100%

Has the site been counted before?

Yes ☒

No ☐

Waterfowl Counts

Little Grebe *Tachybaptus ruficollis*

CORMORANTS & DARTERS

Great Cormorant *Phalacrocorax carbo*

Indian Shag *P. fuscicollis*

Little Cormorant *P. niger*

Unidentified cormorants

Oriental Darter *Anhinga melanogaster*

HERONS & EGRETS

Great Bittern *Botaurus stellaris*

Yellow Bittern *Ixobrychus sinensis*

Schrenck's Bittern *I. eurhythmus*

Cinnamon Bittern *I. cinnamomeus*

Black Bittern *I. flavicollis*

Japanese Night Heron *Gorsachius goisagi*

Malayan Night Heron (Tiger Bittern) *G. melanolophus*

Black-crowned Night Heron *Nycticorax nycticorax*

Rufous Night Heron *N. caledonicus*

Indian Pond Heron *Ardeola grayii*

Chinese Pond Heron *A. bacchus*

3 Javan Pond Heron *A. speciosa*

Cattle Egret *Bubulcus ibis*

1 Striated (Little Green) Heron *Butorides striatus*

Eastern Reef Egret *Egretta sacra*

Chinese (Swinhoe's) Egret *E. eulophotes*

45 Little Egret *E. garzetta*

32 Intermediate Egret *E. intermedia*

33 Great Egret *E. alba*

1 Purple Heron *Ardea purpurea*

Grey Heron *A. cinerea*

Great-billed Heron *A. sumatrana*

Unidentified herons and egrets

STORKS

Milky Stork *Mycteria cinerea*

Painted Stork *M. leucocephala*

Asian Openbill *Anastomus oscitans*

Black Stork *Ciconia nigra*

Wooly-necked Stork *C. episcopus*

Storm's Stork *C. stormi*

Black-necked Stork *Ephippiorhynchus asiaticus*

Lesser Adjutant *Leptoptilos javanicus*

Greater Adjutant *L. dubius*

Unidentified storks

IBISES & SPOONBILLS

Black-headed (White) Ibis *Threskiornis melanocephalus*

White-shouldered Ibis *Pseudibis davisoni*

Glossy Ibis *Plegadis falcinellus*

White Spoonbill *Platalea leucorodia*

Black-faced Spoonbill *P. minor*

Giant Ibis *Thaumatibis gigantea*

Unidentified Spoonbills

GEESE & DUCKS

Spotted Whistling Duck *Dendrocygna guttata*

Fulvous (Large) Whistling Duck *D. bicolor*

Wandering Whistling Duck *D. arcuata*

Lesser Whistling Duck (Lesser Tree Duck) *D. javanica*

Greylag Goose *Anser anser*

Bar-headed Goose *A. indicus*

Ruddy Shelduck *Tadorna ferruginea*

Common Shelduck *T. tadorna*

White-winged Wood Duck *Cairina scutulata*

Comb Duck *Sarkidiornis melanotos*

Indian Cotton Teal *Nettapus coromandelianus*

Eurasian Wigeon *Anas penelope*

Falcated Teal *A. falcata*

Gadwall *A. strepera*

Common (Green-winged) Teal *A. crecca*

Grey Teal *A. gibberifrons*

Mallard *A. platyrhynchos*

Spot-billed Duck *A. poecilorhynchos*

Philippine Duck *A. luzonica*

Northern Pintail *A. acuta*

Garganey *A. querquedula*

Northern Shoveler *A. clypeata*

Red-crested Pochard *Netta rufina*

Common Pochard *Aythya ferina*

Baer's Pochard *A. baeri*

Ferruginous Duck *A. nyroca*

Tufted Duck *A. fuligula*

Goosander *M. merganser*

Unidentified ducks

CRANES

Common Crane *Grus grus*

Sarus Crane *G. antigone*

RAILS, GALLINULES & COOTS

Water Rail *Rallus aquaticus*

Slaty-breasted Rail *R. striatus*

Banded Rail *R. philippensis*

Barred Rail *R. torquatus*

Red-legged Crake *Rallina fasciata*

Slaty-legged Crake *R. eurizonoides*

Baillon's Crake *Porzana pusilla*

Ruddy Crake *P. fusca*

Band-bellied Crake *P. paykullii*

Spotless Crake *P. tabuensis*

White-browed Crake *P. cinereus (Poliolimnas cinereus)*

Brown Crake *Amauromis akool*

Bush-Hen *A. olivacea*

White-breasted Waterhen *A. phoenicurus*

Watercock *Gallixrex cinerea*

_____ Moorhen <i>Gallinula chloropus</i> _____ Purple Swampphen <i>Porphyrio porphyrio</i> _____ Common Coot <i>Fulica atra</i> FINFOOT & JACANAS _____ Masked Finfoot <i>Heliopais personata</i> _____ Comb-crested Jacana <i>Irediparra gallinacea</i> _____ Pheasant-tailed Jacana <i>Hydrophasianus chirurgus</i> _____ Bronze-winged Jacana <i>Metopidius indicus</i> SHOREBIRDS- WADERS _____ Painted Snipe <i>Rostratula benghalensis</i> _____ Crab Plover <i>Dromas ardeola</i> _____ Black-winged Stilt <i>Himantopus himantopus</i> _____ Australian (White-headed) Stilt <i>H. leucocephalus</i> _____ Avocet <i>Recurvirostra avosetta</i> _____ Great Thick-knee <i>Esacus recurvirostris</i> _____ Beach Thick-knee <i>E. magnirostris</i> _____ Oriental Pratincole <i>Glareola maldivarum</i> _____ Little Pratincole <i>G. lactea</i> _____ Northern Lapwing <i>Vanellus vanellus</i> _____ River Lapwing <i>V. duvaucelii</i> _____ Grey-headed Lapwing <i>V. cinereus</i> _____ Red-wattled Lapwing <i>V. indicus</i> _____ Pacific Golden Plover <i>Pluvialis fulva</i> _____ Grey Plover <i>P. squatarola</i> _____ Long-billed Plover <i>Charadrius placidus</i> _____ Little Ringed Plover <i>C. dubius</i> _____ Kentish Plover <i>C. alexandrinus</i> _____ Malaysian Plover <i>C. peronii</i> _____ Mongolian Plover <i>C. mongolus</i> _____ Greater Sand Plover <i>C. leschenaultii</i> _____ Oriental Plover <i>C. veredus</i> _____ Black-tailed Godwit <i>Limosa limosa</i> _____ Bar-tailed Godwit <i>L. lapponica</i> _____ Little Curlew <i>Numenius minutus</i> <u>7</u> _____ Whimbrel <i>N. phaeopus</i> _____ Eurasian Curlew <i>N. arquata</i> _____ Far Eastern Curlew <i>N. madagascariensis</i> _____ Marsh Sandpiper <i>T. stagnatilis</i> _____ Greenshank <i>T. nebularia</i> _____ Nordmann's Greenshank <i>T. guttifer</i> _____ Green Sandpiper <i>T. ochropus</i> _____ Wood Sandpiper <i>T. glareola</i> _____ Terek Sandpiper <i>Xenus cinereus</i> <u>5</u> _____ Common Sandpiper <i>Actitis hypoleucos</i>	_____ Grey-tailed (Grey-rumped) Tattler <i>Heteroscelus brevipes</i> _____ Ruddy Turnstone <i>Arenaria interpres</i> _____ Red-necked Phalarope <i>Phalaropus lobatus</i> _____ Eurasian Woodcock <i>Scolopax rusticola</i> _____ Pintail Snipe <i>Gallinago stenura</i> _____ Swinhoe's Snipe <i>G. megala</i> _____ Common Snipe <i>G. gallinago</i> _____ Asiatic Dowitcher <i>Limnodromus semipalmatus</i> _____ Red Knot <i>Calidris canutus</i> _____ Great Knot <i>C. tenuirostris</i> _____ Sanderling <i>C. alba</i> _____ Red-necked (Rufous-necked) Stint <i>C. ruficollis</i> _____ Temminck's Stint <i>C. temminckii</i> _____ Long-toed Stint <i>C. subminuta</i> _____ Sharp-tailed Sandpiper <i>C. acuminata</i> _____ Dunlin <i>C. alpina</i> _____ Curlew Sandpiper <i>C. ferruginea</i> _____ Spoon-billed Sandpiper <i>Eurynorhynchus pygmeus</i> _____ Broad-billed Sandpiper <i>Limicola falcinellus</i> _____ Unidentified shorebirds GULLS, TERNS & SKIMMERS _____ Herring Gull <i>Larus argentatus</i> _____ Brown-headed Gull <i>L. brunnicephalus</i> _____ Black-headed Gull <i>L. ridibundus</i> _____ Saunders' Gull <i>L. saundersi</i> _____ Unidentified gulls _____ Whiskered Tern <i>Chlidonias hybridus</i> _____ White-winged Black Tern <i>C. leucopterus</i> _____ Gull-billed Tern <i>Gelochelidon nilotica</i> _____ Caspian Tern <i>Hydroprogne caspia</i> _____ Indian River Tern <i>Sterna aurantia</i> _____ Common Tern <i>S. hirundo</i> _____ Black-naped Tern <i>S. sumatrana</i> _____ Black-bellied Tern <i>S. melanogaster</i> _____ Little Tern <i>S. albigrons</i> _____ Great Crested Tern <i>S. bergii</i> _____ Lesser Crested Tern <i>S. bengalensis</i> _____ Unidentified terns _____ Indian Skimmer <i>Rynchops albicollis</i> ADDITIONAL SPECIES _____ <u>Common Kingfisher - 2</u> _____ <u>White Collared Kingfisher - 7</u>
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TION: (please circle the relevant figures)

CONDITION OF WETLAND:

1. Wet (water present)

2. Totally dry,

3. Totally frozen

PROTECTION

1. By Government,

2. By Tradition,

3. Private Ownership,

4. Unprotected,

0. Unknown

THREATS AND USES:

0 Unknown,

1 None,

2 Sedimentation,

3 Excessive overgrowth of vegetation,

4 Cutting/clearance of vegetation,

5 Eutrophication,

6 Agriculture along drying margins,

7 Excessive cattle grazing,

8 domestic sewage,

9 solid waste,

A industrial waste,

B oil,

C pesticides,

D fertilizers,

E Mining,

F Hunting/trapping/poaching of birds,

G Little fishing,

H Large scale fishing,

I Partial reclamation,

J Complete reclamation,

K Dam/barrage construction,

L Tourism/recreation

TIME OF COUNT:

START: 5:45 am

FINISH: 8:20 am

PARTICIPANT(S) NAME (S) AND ADDRESS(ES):

RANDY R. PANTOJA, PENRO - Marinduque

DANTE L. DE LUNA, PG-ENRO Marinduque

IRISH A. MENORCA, DENR - MIMAROPA

JOHN ANDREW M. MAGCULANG, PENRO - Marinduque

JOVEN M. LILLES, NGO - APO MANDIN

ALDRIN Q. ALMONTE, LGU-Santa Cruz

CORAZON R. PELAEZ, PENRO - Marinduque

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JELL MARIEL P. RIEGO, LGU-Santa Cruz

JELOMY H. MAHAYAG, PENRO - Marinduque

Asian Waterfowl Census (Site Form)



Please return to the National Co-ordinator, Asian Waterbird Census, Protected Areas and Wildlife Bureau, Quezon Avenue, Diliman, Quezon City (before the end of March)

COUNTRY:

PHILIPPINES

NAME OF SITE: **Tamayo Mangroveswamp/ Fishpond**

DATE: January 25, 2023

ALTITUDE:

m above sea level

PROVINCE/STATE/PREFECTURE: **Marinduque**

AREA:

NEAREST LARGE TOWN:

Santa Cruz

50.00 (approx.)

ha/km

CO-ORDINATES:

deg. **13°** min. **27' 26"** N/S

SITE CODE:

deg. **122°** min. **5' 32"** E

(For official use only)

WETLAND TYPE: (please circle the relevant figures)

0 Open seas, bays, straits

1 Estuaries, tidal mudflats, salt pans

2 Brackish or saline lakes, lagoons, salt pans

3 Rivers, streams, canals, drains

4 Freshwater marshes, flooded areas

5 Freshwater lakes, ponds

6 Reservoirs, barrages, tanks

7 Gravel pits, mineral workings, mining pools

8 Fish ponds, shrimp ponds

9 Grassland, arable land

10 Mangrove, nipah

11 Freshwater swamp forest, peat swamp forest

If any other type, please specify:

DESCRIPTION SITE: (please circle the relevant figures)

a. Month of maximum flooding:

b. Annual rainfall: mm

c. Source: 1. Local rains **2. River/stream** 3. Sea 4. Other 0. Unknown

d. Maximum depth of water in meters: m

e. Tidal variation: 1. Present **2. Absent** 0. Unknown

f. Salinity: 1. Freshwater 2. Brackish **3. Saline** 0. Unknown

g. Is the site: **1. Permanent** 2. Temporary 3. Semi-permanent 0. Unknown

(Mangrove converted fishpond more than 30 years ago)

h. Vegetation cover: **1. None** 2. Half area 3. Complete 4. Recently cleared 0. Unknown

i. Vegetation type: 1. Growing on bank **2. Submerged in water** 3. Free floating 4. Floating-leaved rooted 5. Emergent 0. Unknown

j. Protection/conservation status: **1. By Government** 2. By tradition 3. Private ownership 4. Unprotected 0. Unknown

k. Fishing: 1. None 2. Little **3. Moderate** 4. Large scale 0. Unknown

l. Hunting/trapping/poaching of birds: 1. None **2. Little** 3. Moderate 4. Large scale 0. Unknown

m. Agriculture: **1. None** 2. Little 3. Moderate 4. Large scale 0. Unrecorded

n. Cattle grazing: **1. None** 2. Little 3. Moderate 4. Large scale 0. Unrecorded

o. Threats/uses: 0. Unknown 1. None 3. Excessive over growth of vegetation 4. Cutting/clearance of vegetation 5. Eutrophication **6. Agriculture along dry margins,**

Excessive cattle grazing 8. Partial/complete reclamation 9. Dam/barrage construction 10. Tourism

If any other type of threats/uses, please specify:

p. Pollution by: **1. Domestic sewage** 2. Solid waste 3. Industrial waste 4. Oil 5. Pesticides 6. Fertilisers 7. Mining

If any other type of pollution, please specify:

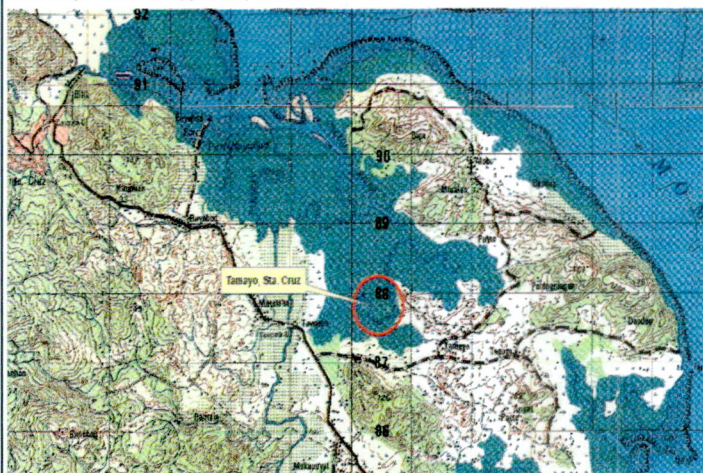
q. Active Conservation measures by: 0. Unknown **1. Local Government** 2. National Government

3. Managed by conservation group (including local community) 4. No management

ADDITIONAL COMMENTS:

The fishpond was said to be owned by a certain Mr. Tirso Zulueta, but it was not operational for the past several years.

Outline map of wetland count unit (limit of the area covered by the count) with important geographical features (cities, roads, rivers, hills) included. Reverse of sheet may be used if necessary. Attach a copy of map if available.



PARTICIPANT(S) NAME(S) AND ADDRESS(ES):

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JELL MARIEL P. RIEGO, LGU-Santa Cruz

JELOMY H. MAHAYAG, PENRO - Marinduque

Asian Waterbird Census (Southeast Asia)

Please return to your National Co-ordinator, Asian Waterbird Census, Protected Areas and Wildlife Bureau, Quezon Avenue, Diliman, Quezon City (before the end of March)

Country:
PHILIPPINES



Name of Site: **Hupi Mangroveswamp / Fishpond**

Date: **January 26, 2023**

Province/State/Prefecture: **Marinduque**

Nearest Large Town: **Santa Cruz**

Site Code (only for official use):

Type: A - Aerial F - On foot, B - By boat, M - Mixed
Coverage: V-25%, W-25-50%, X-50-75%, Y-75-99%, Z-100%

Has the site been counted before?
Yes ☒ No ☐

Waterfowl Counts

Little Grebe *Tachybaptus ruficollis*

CORMORANTS & DARTERS

Great Cormorant *Phalacrocorax carbo*

Indian Shag *P. fuscicollis*

Little Cormorant *P. niger*

Unidentified cormorants

Oriental Darter *Anhinga melanogaster*

HERONS & EGRETS

Great Bittern *Botaurus stellaris*

Yellow Bittern *Ixobrychus sinensis*

Schrenck's Bittern *I. eurhythmus*

Cinnamon Bittern *I. cinnamomeus*

Black Bittern *I. flavicollis*

Japanese Night Heron *Gorsachius goisagi*

Malayan Night Heron (Tiger Bittern) *G. melanolophus*

Black-crowned Night Heron *Nycticorax nycticorax*

Rufous Night Heron *N. caledonicus*

Indian Pond Heron *Ardeola grayii*

Chinese Pond Heron *A. bacchus*

Javan Pond Heron *A. speciosa*

Cattle Egret *Bubulcus ibis*

3 Striated (Little Green) Heron *Butorides striatus*

Eastern Reef Egret *Egretta sacra*

Chinese (Swinhoe's) Egret *E. eulophotes*

36 Little Egret *E. garzetta*

41 Intermediate Egret *E. intermedia*

28 Great Egret *E. alba*

2 Purple Heron *Ardea purpurea*

1 Grey Heron *A. cinerea*

Great-billed Heron *A. sumatrana*

Unidentified herons and egrets

STORKS

Milky Stork *Mycteria cinerea*

Painted Stork *M. leucocephala*

Asian Openbill *Anastomus oscitans*

Black Stork *Ciconia nigra*

Woolly-necked Stork *C. episcopus*

Storm's Stork *C. stormi*

Black-necked Stork *Ephippiorhynchus asiaticus*

Lesser Adjutant *Leptoptilos javanicus*

Greater Adjutant *L. dubius*

Unidentified storks

IBISES & SPOONBILLS

Black-headed (White) Ibis *Threskiornis melanocephalus*

White-shouldered Ibis *Pseudibis davisoni*

Glossy Ibis *Plegadis falcinellus*

White Spoonbill *Platalea leucorodia*

Black-faced Spoonbill *P. minor*

Giant Ibis *Thaumatibis gigantea*

Unidentified Spoonbills

GEESE & DUCKS

Spotted Whistling Duck *Dendrocygna guttata*

Fulvous (Large) Whistling Duck *D. bicolor*

Wandering Whistling Duck *D. arcuata*

Lesser Whistling Duck (Lesser Tree Duck) *D. javanica*

Greylag Goose *Anser anser*

Bar-headed Goose *A. indicus*

Ruddy Shelduck *Tadorna ferruginea*

Common Shelduck *T. tadorna*

White-winged Wood Duck *Cairina scutulata*

Comb Duck *Sarkidiornis melanotos*

Indian Cotton Teal *Nettapus coromandelianus*

Eurasian Wigeon *Anas penelope*

Falcated Teal *A. falcata*

Gadwall *A. strepera*

Common (Green-winged) Teal *A. crecca*

Grey Teal *A. gibberifrons*

Mallard *A. platyrhynchos*

Spot-billed Duck *A. poecilorhynchos*

42 Philippine Duck *A. luzonica*

Northern Pintail *A. acuta*

Garganey *A. querquedula*

Northern Shoveler *A. clypeata*

Red-crested Pochard *Netta rufina*

Common Pochard *Aythya ferina*

Baer's Pochard *A. baeri*

Ferruginous Duck *A. nyroca*

Tufted Duck *A. fuligula*

Goosander *M. merganser*

Unidentified ducks

CRANES

Common Crane *Grus grus*

Sarus Crane *G. antigone*

RAILS, GALLINULES & COOTS

Water Rail *Rallus aquaticus*

Slaty-breasted Rail *R. striatus*

Banded Rail *R. philippensis*

Barred Rail *R. torquatus*

Red-legged Crake *Rallina fasciata*

Slaty-legged Crake *R. eurizonoides*

Baillon's Crake *Porzana pusilla*

Ruddy Crake *P. fusca*

Band-bellied Crake *P. paykullii*

Spotless Crake *P. tabuensis*

White-browed Crake *P. cinereus (Poliolimnas cinereus)*

Brown Crake *Amauornis akool*

Bush-Hen *A. olivacea*

White-breasted Waterhen *A. phoenicurus*

Watercock *Gallicrex cinerea*

Moorhen <i>Gallinula chloropus</i> Purple Swamphen <i>Porphyrio porphyrio</i> Common Coot <i>Fulica atra</i> FINFOOT & JACANAS Masked Finfoot <i>Heliopais personata</i> Comb-crested Jacana <i>Irediparra gallinacea</i> Pheasant-tailed Jacana <i>Hydrophasianus chirurgus</i> Bronze-winged Jacana <i>Metopidius indicus</i> SHOREBIRDS- WADERS Painted Snipe <i>Rostratula benghalensis</i> Crab Plover <i>Dromas ardeola</i> 76 Black-winged Stilt <i>Himantopus himantopus</i> Australian (White-headed) Stilt <i>H. leucocephalus</i> Avocet <i>Recurvirostra avocetta</i> Great Thick-knee <i>Esacus recurvirostris</i> Beach Thick-knee <i>E. magnirostris</i> Oriental Pratincole <i>Glareola maldivarum</i> Little Pratincole <i>G. lactea</i> Northern Lapwing <i>Vanellus vanellus</i> River Lapwing <i>V. duvaucelii</i> Grey-headed Lapwing <i>V. cinereus</i> Red-wattled Lapwing <i>V. indicus</i> Pacific Golden Plover <i>Pluvialis fulva</i> Grey Plover <i>P. squatarola</i> Long-billed Plover <i>Charadrius placidus</i> Little Ringed Plover <i>C. dubius</i> Kentish Plover <i>C. alexandrinus</i> Malaysian Plover <i>C. peronii</i> Mongolian Plover <i>C. mongolus</i> Greater Sand Plover <i>C. leschenaultii</i> Oriental Plover <i>C. veredus</i> Black-tailed Godwit <i>Limosa limosa</i> Bar-tailed Godwit <i>L. lapponica</i> Little Curlew <i>Numenius minutus</i> Whimbrel <i>N. phaeopus</i> Eurasian Curlew <i>N. arquata</i> Far Eastern Curlew <i>N. madagascariensis</i> Marsh Sandpiper <i>T. stagnatilis</i> 11 Greenshank <i>T. nebularia</i> Nordmann's Greenshank <i>T. guttifer</i> Green Sandpiper <i>T. ochropus</i> Wood Sandpiper <i>T. glareola</i> Terek Sandpiper <i>Xenus cinereus</i> 6 Common Sandpiper <i>Actitis hypoleucos</i>	Grey-tailed (Grey-rumped) Tattler <i>Heteroscelus brevipes</i> Ruddy Turnstone <i>Arenaria interpres</i> Red-necked Phalarope <i>Phalaropus lobatus</i> Eurasian Woodcock <i>Scolopax rusticola</i> Pintail Snipe <i>Gallinago stenura</i> Swinhoe's Snipe <i>G. megala</i> Common Snipe <i>G. gallinago</i> Asiatic Dowitcher <i>Limnodromus semipalmatus</i> Red Knot <i>Calidris canutus</i> Great Knot <i>C. tenuirostris</i> Sanderling <i>C. alba</i> Red-necked (Rufous-necked) Stint <i>C. ruficollis</i> Temminck's Stint <i>C. temminckii</i> Long-toed Stint <i>C. subminuta</i> Sharp-tailed Sandpiper <i>C. acuminata</i> Dunlin <i>C. alpina</i> Curlew Sandpiper <i>C. ferruginea</i> Spoon-billed Sandpiper <i>Eurynorhynchus pygmeus</i> Broad-billed Sandpiper <i>Limicola falcinellus</i> Unidentified shorebirds GULLS, TERNS & SKIMMERS Herring Gull <i>Larus argentatus</i> Brown-headed Gull <i>L. brunnicephalus</i> Black-headed Gull <i>L. ridibundus</i> Saunders' Gull <i>L. saundersi</i> Unidentified gulls Whiskered Tern <i>Chlidonias hybridus</i> White-winged Black Tern <i>C. leucopterus</i> Gull-billed Tern <i>Gelochelidon nilotica</i> Caspian Tern <i>Hydroprogne caspia</i> Indian River Tern <i>Sterna aurantia</i> Common Tern <i>S. hirundo</i> Black-naped Tern <i>S. sumatrana</i> Black-bellied Tern <i>S. melanogaster</i> Little Tern <i>S. albigrons</i> Great Crested Tern <i>S. bergii</i> Lesser Crested Tern <i>S. bengalensis</i> Unidentified terns Indian Skimmer <i>Rynchops albigollis</i> ADDITIONAL SPECIES Osprey - 1; Crow - 5 Brahminy Kite - 8 White-collared Kingfisher - 4
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USEFUL SITE INFORMATION: (please circle the relevant figures)

CONDITION OF WETLAND: 1. Wet (water present), 2 Totally dry, 3. Totally frozen

PROTECTION 1. By Government, 2. By Tradition, 3. Private Ownership, 4. Unprotected, 0. Unknown

THREATS AND USES: 0 Unknown, 1 None, 2 Sedimentation, 3 Excessive overgrowth of vegetation, 4 Cutting/clearance of vegetation, 5 Eutrophication, 6 Agriculture along drying margins, 7 Excessive cattle grazing, Pollution by: 8 domestic sewage, 9 solid waste, A industrial waste, B oil, C pesticides, D fertilizers, E Mining, F Hunting/trapping/poaching of birds, G Little fishing, H Large scale fishing, I Partial reclamation, J Complete reclamation, K Dam/barrage construction, L Tourism/recreation

TIME OF COUNT: START: 5:52 am FINISH: 9:08 am

PARTICIPANT(S) NAME (S) AND ADDRESS(ES):

RANDY R. PANTOJA, PENRO - Marinduque
DANTE L. DE LUNA, PG-ENRO Marinduque
IRISH A. MENORCA, DENR - MIMAROPA
RONALD S. ATIENZA, LDRMO Mogpog
JELL MARIEL P. RIEGO, LGU-Santa Cruz
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ALDRIN Q. ALMONTE, LGU-Santa Cruz

Asian Waterfowl Census (Site Form)



Please return to the National Co-ordinator, Asian Waterbird Census, Protected Areas and Wildlife Bureau, Quezon Avenue, Diliman, Quezon City (before the end of March)

COUNTRY:

PHILIPPINES

NAME OF SITE: **Hupi Mangroveswamp/ Fishpond**

DATE: January 26, 2023

ALTITUDE:

m above sea level

PROVINCE/STATE/PREFECTURE: **Marinduque**

AREA:

100.00 (approx.)

NEAREST LARGE TOWN:

Santa Cruz

CO-ORDINATES:

deg. 13° min. 29' 21" N/S

SITE CODE:

deg. 122° min. 02' 10" E

(For official use only)

WETLAND TYPE: (please circle the relevant figures)

0 Open seas, bays, straits

1 Estuaries, tidal mudflats, salt pans

2 Brackish or saline lakes, lagoons, salt pans

3 Rivers, streams, canals, drains

4 Freshwater marshes, flooded areas

5 Freshwater lakes, ponds

6 Reservoirs, barrages, tanks

7 Gravel pits, mineral workings, mining pools

8 Fish ponds, shrimp ponds

9 Grassland, arable land

10 Mangrove, nipah

11 Freshwater swamp forest, peat swamp forest

If any other type, please specify:

DESCRIPTION SITE: (please circle the relevant figures)

a. Month of maximum flooding:

Source: 1. Local rains 2. River/stream 3. Sea 4. Other 0. Unknown

b. Annual rainfall:

mm

c. Maximum depth of water in meters:

m

e. Tidal variation:

1. Present 2. Absent 0. Unknown

f. Salinity: 1. Freshwater 2. Brackish 3. Saline 0. Unknown

g. Is the site: 1. Permanent 2. Temporary 3. Semi-permanent 0. Unknown

(Mangrove converted fishpond more than 30 years ago)

h. Vegetation cover: 1. None 2. Half area 3. Complete 4. Recently cleared 0. Unknown

i. Vegetation type: 1. Growing on bank 2. Submerged in water 3. Free floating 4. Floating-leaved rooted 5. Emergent 0. Unknown

j. Protection/conservation status: 1. By Government 2. By tradition 3. Private ownership 4. Unprotected 0. Unknown

k. Fishing: 1. None 2. Little 3. Moderate 4. Large scale 0. Unknown

l. Hunting/trapping/poaching of birds: 1. None 2. Little 3. Moderate 4. Large scale 0. Unknown

m. Agriculture: 1. None 2. Little 3. Moderate 4. Large scale 0. Unrecorded

n. Cattle grazing: 1. None 2. Little 3. Moderate 4. Large scale 0. Unrecorded

o. Threats/uses: 0. Unknown 1. None 3. Excessive over growth of vegetation 4. Cutting/clearance of vegetation 5. Eutrophication 6. Agriculture along dry margins,

7. Excessive cattle grazing 8. Partial/complete reclamation 9. Dam/barrage construction 10. Tourism

If any other type of threats/uses, please specify:

p. Pollution by: 1. Domestic sewage 2. Solid waste 3. Industrial waste 4. Oil 5. Pesticides 6. Fertilisers 7. Mining

If any other type of pollution, please specify:

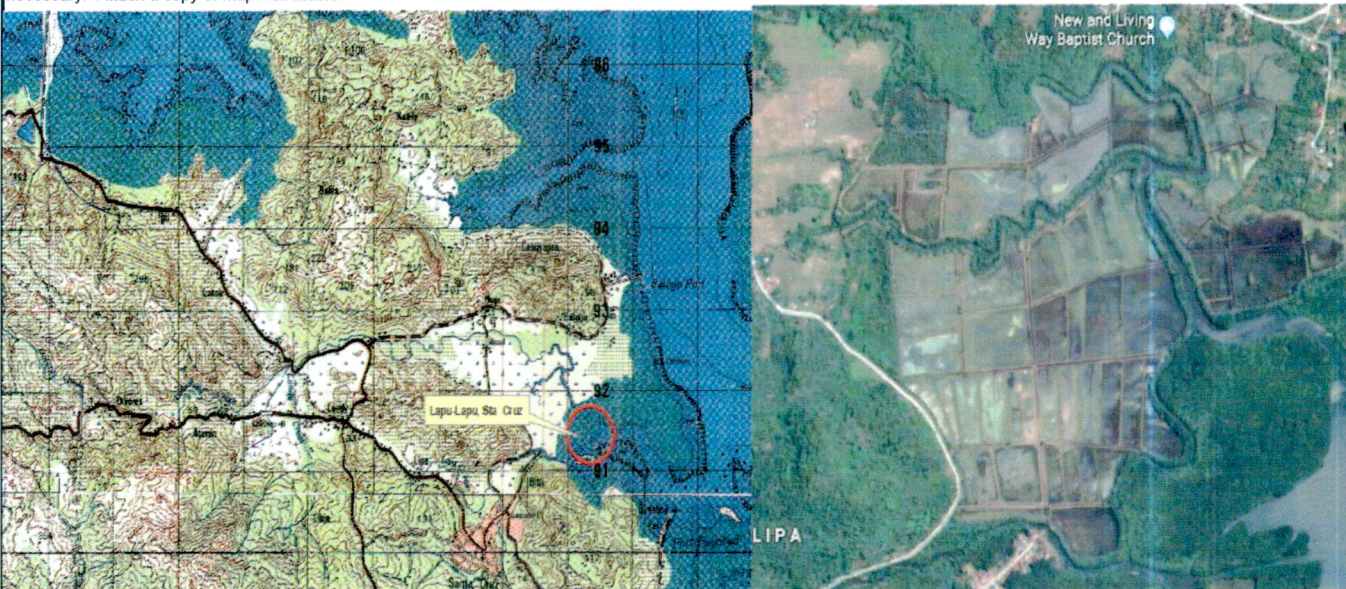
q. Active Conservation measures by: 0. Unknown 1. Local Government 2. National Government

3. Managed by conservation group (including local community) 4. No management

(FISHPOND OPERATOR)

ADDITIONAL COMMENTS:

Outline map of wetland count unit (limit of the area covered by the count) with important geographical features (cities, roads, rivers, hills) included. Reverse of sheet may be used if necessary. Attach a copy of map if available.



PARTICIPANT(S) NAME(S) AND ADDRESS(ES):

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Asian Waterbird Census (Southeast Asia)



Please return to your National Co-ordinator, Asian Waterbird Census, Protected Areas and Wildlife Bureau, Quezon Avenue, Diliman, Quezon City (before the end of March)

Country:
PHILIPPINES

Name of Site: **Capayang Mangroveswamp/ Fishpond**

Date: **January 27, 2023**

Province/State/Prefecture: **Marinduque**

Site Code (only for official use):

Nearest Large Town: **Mogpog**

Type: A - Aerial, F - On foot, B - By boat, M - Mixed
Coverage: V-25%, W-25-50%, X-50-75%, Y-75-99%, Z-100%

Has the site been counted before?

Yes ☒ No ☐

Waterfowl Counts

Little Grebe *Tachybaptus ruficollis*

CORMORANTS & DARTERS

Great Cormorant *Phalacrocorax carbo*

Indian Shag *P. fuscicollis*

Little Cormorant *P. niger*

Unidentified cormorants

Oriental Darter *Anhinga melanogaster*

HERONS & EGRETS

Great Bittern *Botaurus stellaris*

Yellow Bittern *Ixobrychus sinensis*

Schrenck's Bittern *I. eurhythmus*

Cinnamon Bittern *I. cinnamomeus*

Black Bittern *I. flavicollis*

Japanese Night Heron *Gorsachius goisagi*

Malayan Night Heron (Tiger Bittern) *G. melanolophus*

Black-crowned Night Heron *Nycticorax nycticorax*

Rufous Night Heron *N. caledonicus*

Indian Pond Heron *Ardeola grayii*

Chinese Pond Heron *A. bacchus*

Javan Pond Heron *A. speciosa*

Cattle Egret *Bubulcus ibis*

Striated (Little Green) Heron *Butorides striatus*

Eastern Reef Egret *Egretta sacra*

Chinese (Swinhoe's) Egret *E. eulophotes*

3 Little Egret *E. garzetta*

1 Intermediate Egret *E. intermedia*

2 Great Egret *E. alba*

2 Purple Heron *Ardea purpurea*

1 Grey Heron *A. cinerea*

Great-billed Heron *A. sumatrana*

Unidentified herons and egrets

STORKS

Milky Stork *Mycteria cinerea*

Painted Stork *M. leucocephala*

Asian Openbill *Anastomus oscitans*

Black Stork *Ciconia nigra*

Woolly-necked Stork *C. episcopus*

Storm's Stork *C. stormi*

Black-necked Stork *Ephippiorhynchus asiaticus*

Lesser Adjutant *Leptoptilos javanicus*

Greater Adjutant *L. dubius*

Unidentified storks

IBISES & SPOONBILLS

Black-headed (White) Ibis *Threskiornis melanocephalus*

White-shouldered Ibis *Pseudibis davisoni*

Glossy Ibis *Plegadis falcinellus*

White Spoonbill *Platalea leucorodia*

Black-faced Spoonbill *P. minor*

Giant Ibis *Thaumatibis gigantea*

Unidentified Spoonbills

GEESE & DUCKS

Spotted Whistling Duck *Dendrocygna guttata*

Fulvous (Large) Whistling Duck *D. bicolor*

Wandering Whistling Duck *D. arcuata*

Lesser Whistling Duck (Lesser Tree Duck) *D. javanica*

Greylag Goose *Anser anser*

Bar-headed Goose *A. indicus*

Ruddy Shelduck *Tadorna ferruginea*

Common Shelduck *T. tadorna*

White-winged Wood Duck *Cairina scutulata*

Comb Duck *Sarkidiornis melanotos*

Indian Cotton Teal *Nettapus coromandelianus*

Eurasian Wigeon *Anas penelope*

Falcated Teal *A. falcata*

Gadwall *A. strepera*

Common (Green-winged) Teal *A. crecca*

Grey Teal *A. gibberifrons*

Mallard *A. platyrhynchos*

Spot-billed Duck *A. poecilorhyncha*

9 Philippine Duck *A. luzonica*

Northern Pintail *A. acuta*

Garganey *A. querquedula*

Northern Shoveler *A. clypeata*

Red-crested Pochard *Netta rufina*

Common Pochard *Aythya ferina*

Baer's Pochard *A. baeri*

Ferruginous Duck *A. nyroca*

Tufted Duck *A. fuligula*

Goosander *M. merganser*

Unidentified ducks

CRANES

Common Crane *Grus grus*

Sarus Crane *G. antigone*

RAILS, GALLINULES & COOTS

Water Rail *Rallus aquaticus*

Slaty-breasted Rail *R. striatus*

Banded Rail *R. philippensis*

Barred Rail *R. torquatus*

Red-legged Crake *Rallina fasciata*

Slaty-legged Crake *R. eurizonoides*

Baillon's Crake *Porzana pusilla*

Ruddy Crake *P. fusca*

Band-bellied Crake *P. paykullii*

Spotless Crake *P. tabuensis*

White-browed Crake *P. cinereus (Poliolimnas cinereus)*

Brown Crake *Amaurornis akool*

Bush-Hen *A. olivacea*

White-breasted Waterhen *A. phoenicurus*

Watercock *Gallicrex cinerea*

Moorhen *Gallinula chloropus*

Purple Swampphen *Porphyrio porphyrio*

Common Coot *Fulica atra*

FINFOOT & JACANAS

Masked Finfoot *Heliopais personata*

Comb-crested Jacana *Irediparra gallinacea*

Pheasant-tailed Jacana *Hydrophasianus chirurgus*

Bronze-winged Jacana *Metopidius indicus*

SHOREBIRDS- WADERS

Painted Snipe *Rostratula benghalensis*

Crab Plover *Dromas ardeola*

2 Black-winged Stilt *Himantopus himantopus*

Australian (White-headed) Stilt *H. leucocephalus*

Avocet *Recurvirostra avosetta*

Great Thick-knee *Esacus recurvirostris*

Beach Thick-knee *E. magnirostris*

Oriental Pratincole *Glareola maldivarum*

Little Pratincole *G. lactea*

Northern Lapwing *Vanellus vanellus*

River Lapwing *V. duvaucelii*

Grey-headed Lapwing *V. cinereus*

Red-wattled Lapwing *V. indicus*

32 Pacific Golden Plover *Pluvialis fulva*

Grey Plover *P. squatarola*

Long-billed Plover *Charadrius placidus*

Little Ringed Plover *C. dubius*

Kentish Plover *C. alexandrinus*

Malaysian Plover *C. peronii*

Mongolian Plover *C. mongolus*

Greater Sand Plover *C. leschenaultii*

Oriental Plover *C. veredus*

Black-tailed Godwit *Limosa limosa*

Bar-tailed Godwit *L. lapponica*

Little Curlew *Numenius minutus*

26 Whimbrel *N. phaeopus*

Eurasian Curlew *N. arquata*

Far Eastern Curlew *N. madagascariensis*

Marsh Sandpiper *T. stagnatilis*

34 Greenshank *T. nebularia*

Nordmann's Greenshank *T. guttifer*

Green Sandpiper *T. ochropus*

Wood Sandpiper *T. glareola*

Terek Sandpiper *Xenus cinereus*

Common Sandpiper *Actitis hypoleucos*

Grey-tailed (Grey-rumped) Tattler *Heteroscelus brevipes*

Ruddy Turnstone *Arenaria interpres*

Red-necked Phalarope *Phalaropus lobatus*

Eurasian Woodcock *Scolopax rusticola*

Pintail Snipe *Gallinago stenura*

Swinhoe's Snipe *G. megala*

Common Snipe *G. gallinago*

Asiatic Dowitcher *Limnodromus semipalmatus*

Red Knot *Calidris canutus*

Great Knot *C. tenuirostris*

Sanderling *C. alba*

Red-necked (Rufous-necked) Stint *C. ruficollis*

Temminck's Stint *C. temminckii*

Long-toed Stint *C. subminuta*

Sharp-tailed Sandpiper *C. acuminata*

Dunlin *C. alpina*

Curlew Sandpiper *C. ferruginea*

Spoon-billed Sandpiper *Eurynorhynchus pygmeus*

Broad-billed Sandpiper *Limicola falcinellus*

Unidentified shorebirds

GULLS, TERNS & SKIMMERS

Herring Gull *Larus argentatus*

Brown-headed Gull *L. brunnicephalus*

Black-headed Gull *L. ridibundus*

Saunders' Gull *L. saundersi*

Unidentified gulls

Whiskered Tern *Chlidonias hybridus*

White-winged Black Tern *C. leucopterus*

Gull-billed Tern *Gelochelidon nilotica*

Caspian Tern *Hydroprogne caspia*

Indian River Tern *Sterna aurantia*

Common Tern *S. hirundo*

Black-naped Tern *S. sumatrana*

Black-bellied Tern *S. melanogaster*

Little Tern *S. albifrons*

Great Crested Tern *S. bergii*

Lesser Crested Tern *S. bengalensis*

Unidentified terns

Indian Skimmer *Rynchops albigollis*

ADDITIONAL SPECIES

Osprey - 1; Brahminy Kite - 1

Barn swallow - 2; White collared Kingfisher - 4

USEFUL SITE INFORMATION: (please circle the relevant figures)

CONDITION OF WETLAND: 1. Wet (water present), 2. Totally dry, 3. Totally frozen

PROTECTION 1. By Government, 2. By Tradition, 3. Private Ownership, 4. Unprotected, 0. Unknown

THREATS AND USES: 0 Unknown, 1 None, 2 Sedimentation, 3 Excessive overgrowth of vegetation, 4 Cutting/clearance of vegetation, 5 Eutrophication, 6 Agriculture along drying margins, 7 Excessive cattle grazing, Pollution by: 8 domestic sewage, 9 solid waste, A industrial waste, B oil, C pesticides, D fertilizers, E Mining, F Hunting/trapping/poaching of birds, G Little fishing, H Large scale fishing, I Partial reclamation, J Complete reclamation, K Dam/barrage construction, L Tourism/recreation

TIME OF COUNT:

START: 5:52 am

FINISH: 7:49 am

PARTICIPANT(S) NAME (S) AND ADDRESS(ES):

RANDY R. PANTOJA, PENRO - Marinduque

DANTE L. DE LUNA, PG-ENRO Marinduque

IRISH A. MENORCA, DENR - MIMAROPA

RONALD S. ATIENZA, LDRMO Mogpog

JELOMY H. MAHAYAG, PENRO - Marinduque

CORAZON R. PELAEZ, PENRO - Marinduque

DOREEN S. MASCAREÑAS, MSC - School Of Agriculture

MARIE GRACE S. DELA CUEVA, DENR - MIMAROPA

JOVEN M. LILLES, NGO - APO MANDIN

Asian Waterfowl Census (Site Form)



Please return to the National Co-ordinator, Asian Waterbird Census, Protected Areas and Wildlife Bureau, Quezon Avenue, Diliman, Quezon City (before the end of March)

COUNTRY:

PHILIPPINES

NAME OF SITE: Capayang Mangroveswamp/ Fishpond

DATE: January 27, 2023

ALTITUDE:

m above sea level

PROVINCE/STATE/PREFECTURE Marinduque

AREA:

NEAREST LARGE TOWN:

Mogpog

50.00 (approx.)

ha/km

CO-ORDINATES:

deg. 13° min. 30' 2.54" N/S
deg. 121° min. 50' 55" E

SITE CODE:

(For official use only)

WETLAND TYPE: (please circle the relevant figures)

- | | |
|--|---|
| 0 Open seas, bays, straits | 6 Reservoirs, barrages, tanks |
| 1 Estuaries, tidal mudflats, salt pans | 7 Gravel pits, mineral workings, mining pools |
| 2 Brackish or saline lakes, lagoons, salt pans | 8 Fish ponds, shrimp ponds |
| 3 Rivers, streams, canals, drains | 9 Grassland, arable land |
| 4 Freshwater marshes, flooded areas | 10 Mangrove, nipah |
| 5 Freshwater lakes, ponds | 11 Freshwater swamp forest, peat swamp forest |

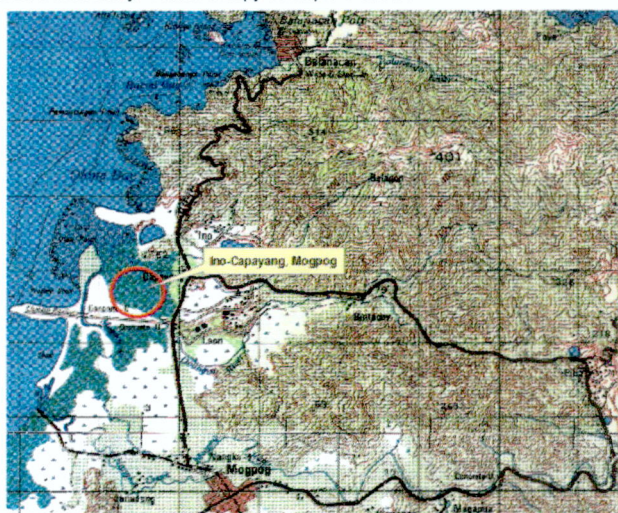
If any other type, please specify:

DESCRIPTION SITE: (please circle the relevant figures)

- | | |
|---|--|
| a. Month of maximum flooding: | b. Annual rainfall: |
| Source: 1. Local rains 2. River/stream 3. Sea 4. Other 0. Unknown | mm |
| c. Maximum depth of water in meters: | m |
| d. Salinity: 1. Freshwater 2. Brackish 3. Saline 0. Unknown | e. Tidal variation: 1. Present 2. Absent 0. Unknown |
| g. Is the site: 1. Permanent 2. Temporary 3. Semi-permanent 0. Unknown | (Mangrove converted fishpond more than 30 years ago) |
| h. Vegetation cover: 1. None 2. Half area 3. Complete 4. Recently cleared 0. Unknown | |
| i. Vegetation type: 1. Growing on bank 2. Submerged in water 3. Free floating 4. Floating-leaved rooted 5. Emergent 0. Unknown | |
| j. Protection/conservation status: 1. By Government 2. By tradition 3. Private ownership 4. Unprotected 0. Unknown (Fishpond owner) | |
| k. Fishing: 1. None 2. Little 3. Moderate 4. Large scale 0. Unknown | |
| l. Hunting/trapping/poaching of birds: 1. None 2. Little 3. Moderate 4. Large scale 0. Unknown | |
| m. Agriculture: 1. None 2. Little 3. Moderate 4. Large scale 0. Unrecorded | |
| n. Cattle grazing: 1. None 2. Little 3. Moderate 4. Large scale 0. Unrecorded | |
| o. Threats/uses: 0. Unknown 1. None 3. Excessive over growth of vegetation 4. Cutting/clearance of vegetation 5. Eutrophication 6. Agriculture along dry margins, 7. Excessive cattle grazing 8. Partial/complete reclamation 9. Dam/barrage construction 10. Tourism | |
| If any other type of threats/uses, please specify: | |
| p. Pollution by: 1. Domestic sewage 2. Solid waste 3. Industrial waste 4. Oil 5. Pesticides 6. Fertilisers 7. Mining | |
| If any other type of pollution, please specify: | |
| q. Active Conservation measures by: 0. Unknown 1. Local Government 2. National Government | |
| 3. Managed by conservation group (including local community) 4. No management | |

ADDITIONAL COMMENTS:

Outline map of wetland count unit (limit of the area covered by the count) with important geographical features (cities, roads, rivers, hills) included. Reverse of sheet may be used if necessary. Attach a copy of map if available.



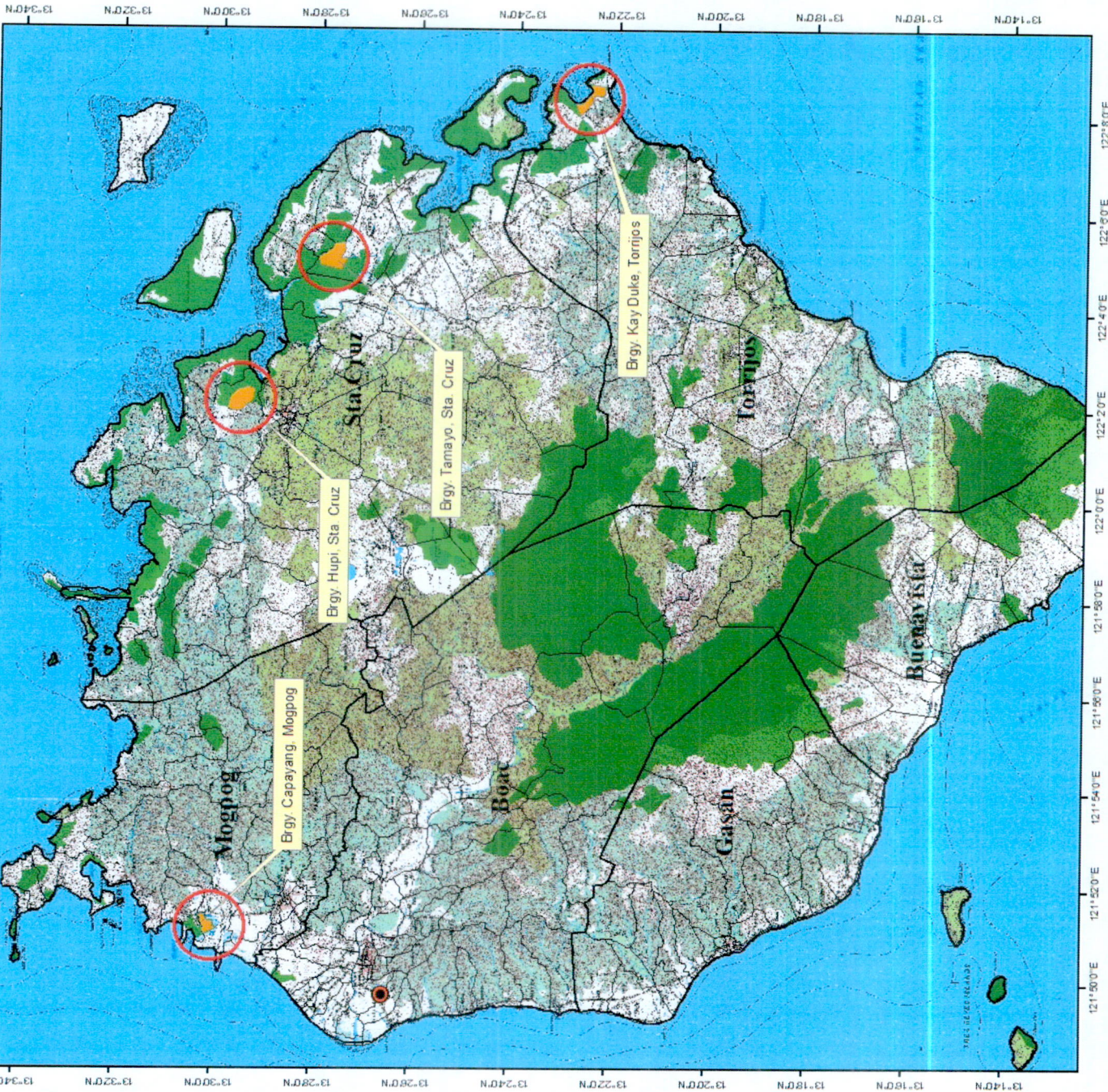
PARTICIPANT(S) NAME(S) AND ADDRESS(ES):

RANDY R. PANTOJA, PENRO - Marinduque
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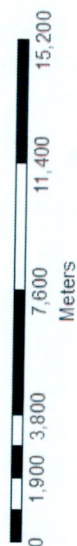
ASIAN WATERBIRD CENSUS 2023

Species		Capayang, Mogpog	Hupi, Sta. Cruz	Tamayo, Sta. Cruz	Kay Duke, Torrijos	TOTAL
HERONS & EGRETS						
1	Little Egret <i>E. garzetta</i>	3	36	45	0	84
2	Intermediate Egret <i>E. intermedia</i>	1	41	32	4	78
3	Great Egret <i>E. alba</i>	2	28	33	0	63
4	Purple Heron <i>Ardea purpurea</i>	2	2	1	0	5
5	Grey Heron <i>A. cinerea</i>	1	1	0	0	2
6	Javan Pond Heron <i>A. speciosa</i>	0	0	3	0	3
7	Striated (Little Green) Heron <i>Butorides striatus</i>	0	3	1	0	4
GEESE & DUCKS						
8	Philippine Duck <i>A. luzonica</i>	9	42	0	47	98
SHOREBIRDS- WADERS						
9	Black-winged Stilt <i>Himantopus himantopus</i>	2	76	0	0	78
10	Pacific Golden Plover <i>Pluvialis fulva</i>	32	0	0	0	32
11	Whimbrel <i>N. phaeopus</i>	26	0	7	0	33
12	Common Sandpiper <i>Actitis hypoleucos</i>	34	6	5	0	45
13	Greenshank <i>T. nebularia</i>	0	11	0	0	11
OTHER SPECIES						
14	Brahminy Kite <i>Haliastur indus</i>	2	8	0	0	10
15	Osprey <i>Pandion haliaetus</i>	1	1	0	0	2
16	White-eared brown doves <i>Phapitreron leucotis</i>	0	0	0	8	8
17	Common Kingfisher <i>Alcedo atthis</i>	0	0	2	0	2
18	White - collared Kingfisher <i>Halcyon chloris</i>	2	4	7	23	36
19	Crow	4	5	0	0	9
20	Swiftlets	11	14	5	0	30
21	Barn Swallow <i>Hirundo rustica</i>	2	0	0	0	2
TOTAL		134	278	141	82	635
Number of species found per site		16	15	11	4	



MAP SHOWING THE RELATIVE LOCATION OF ASIAN WATERBIRDS CENSUS SITES IN THE PROVINCE OF MARINDUQUE

SCALE = 1:150,000



Projection.....WGS_1984_UTM_Zone 51N
Horizontal Datum.....GCS_WGS_1984

Legend

- PENRO Marinduque
- Asian Waterbird Census Sites
- Timberland
- Barangay Boundary
- Municipal Boundary

Prepared by:

Checked/Verified by:

Randy B. Pantoria
RANDY B. PANTORIA
Forest Technician I

ALETH C. BUNDOC
CDO II/Chief, CDS

Attested by:

Approved by:

ENGR. CYNTHIA U. LOZANO
Chief, Technical Services Division

IMELDA M. DIAZ
OIC, PENR Officer



Republic of the Philippines
Department of Environment and Natural Resources
PENRO Marinduque

ASIAN WATERBIRD CENSUS 2023

Capayang, Mogpog, Marinduque

Pacific Golden Plover

Scientific Name:

Pluvialis fulva

Photo taken by:

Corazon R. Pelaez



Purple Heron

Scientific Name:

Ardea purpurea

Photo taken by:

Corazon R. Pelaez

Whimbrel

Scientific Name:

N. phaeopus

Photo taken by:

Corazon R. Pelaez



ASIAN WATERBIRD CENSUS 2023

Capayang, Mogpog, Marinduque

PHILIPPINE DUCK

Scientific Name:

Anas luzonica

Photo taken by:

Corazon R. Pelaez



GREENSHANK

Scientific Name:

Tringa nebularia

Photo taken by:

Corazon R. Pelaez



GREAT EGRET

Scientific Name:

E. alba

Photo taken by:

Corazon R. Pelaez

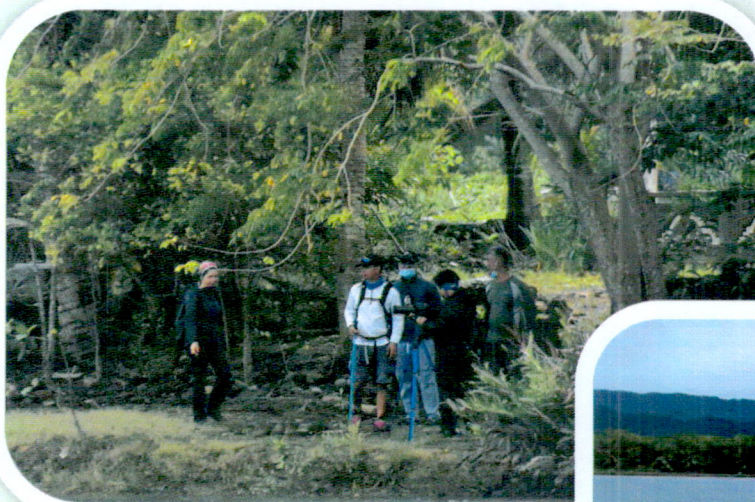


ASIAN WATERBIRD CENSUS 2023

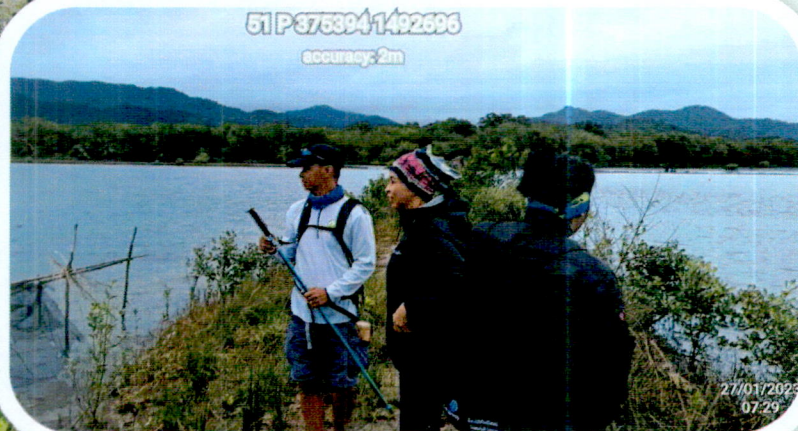
Capayang, Mogpog, Marinduque



Pacific Golden Plover and Whimbrels in flight



In photos: The participants while identifying the bird species in sight using the spotting scope and binoculars.



ASIAN WATERBIRD CENSUS 2023

Tamayo, Sta. Cruz, Marinduque



LITTLE EGRET

Scientific Name:

E. garzetta

Photo taken by:

Corazon R. Pelaez

GREAT EGRET

Scientific Name:

E. alba

Photo taken by:

Corazon R. Pelaez



STRIATED HERON (LITTLE GREEN)

Scientific Name:

Butorides striatus

Photo taken by:

Corazon R. Pelaez

ASIAN WATERBIRD CENSUS 2023

Tamayo, Sta. Cruz, Marinduque



GREY HERON

Scientific Name:

Ardea cinerea

Photo taken by:

Corazon R. Pelaez

COMMON SANDPIPER

Scientific Name:

Actitis hypoleucos

Photo taken by:

Corazon R. Pelaez



JAVAN POND HERON

Scientific Name:

A. speciosa

Photo taken by:

Corazon R. Pelaez



ASIAN WATERBIRD CENSUS 2023

Tamayo, Sta. Cruz, Marinduque



WHIMBREL

Scientific Name:

N. phaeopus

Photo taken by:

Corazon R. Pelaez

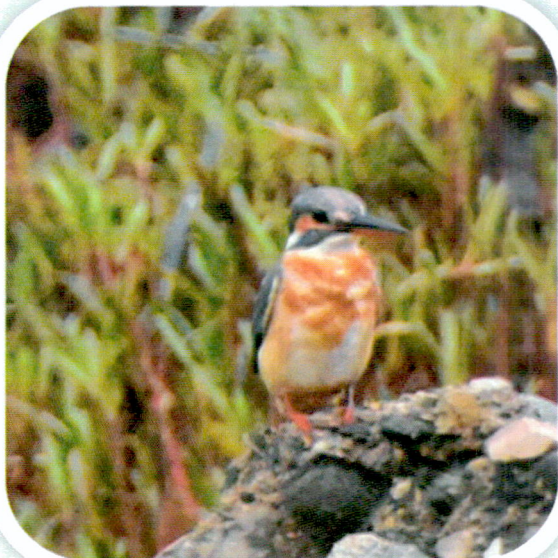
WHITE COLLARED KINGFISHERS

Scientific Name:

Halcyon chloris

Photo taken by:

Corazon R. Pelaez



COMMON KINGFISHER

Scientific Name:

Alcedo atthis

Photo taken by:

Corazon R. Pelaez

ASIAN WATERBIRD CENSUS 2023

Tamayo, Sta. Cruz, Marinduque



The participants of the Asian Waterbirds Census 2023 composing of representatives from Marinduque State College, APO Mandin, DENR MIMAROPA Regional Office, LGU Santa Cruz and



A panoramic view of the counting site, with some of the egrets in flight, located at Barangay Tamayo, Santa Cruz, Marinduque

ASIAN WATERBIRD CENSUS 2023

Hupi, Sta. Cruz, Marinduque

BLACK-WINGED STILT

Scientific Name:

Himantopus himantopus

Photo taken by:

Corazon R. Pelaez



PURPLE HERON

Scientific Name:

Ardea purpurea

Photo taken by:

Corazon R. Pelaez



GREAT EGRET

Scientific Name:

E. alba

Photo taken by:

Corazon R. Pelaez



ASIAN WATERBIRD CENSUS 2023

Hupi, Sta. Cruz, Marinduque



GREENSHANK

Scientific Name:

Tringa nebularia

Photo taken by:

Corazon R. Pelaez

COMMON SANDPIPER

Scientific Name:

Actitis hypoleucos

Photo taken by:

Corazon R. Pelaez



LITTLE EGRET

Scientific Name:

E.garzetta

Photo taken by:

Corazon R. Pelaez

ASIAN WATERBIRD CENSUS 2023

Hupi, Sta. Cruz, Marinduque

PHILIPPINE DUCK

Scientific Name:

Anas luzonicas

Photo taken by:

Corazon R. Pelaez



STRIATED HERON

Scientific Name:

Butorides striatus

Photo taken by:

Corazon R. Pelaez

OSPREY

Scientific Name:

Pandion haliaetus

Photo taken by:

Corazon R. Pelaez

