



Republic of the Philippines  
Department of Environment and Natural Resources  
**MIMAROPA Region**  
**Provincial Environment and Natural Resources Office**  
Bgy. Sta. Monica, Puerto Princesa City, Palawan  
E-mail: penropalawan@denr.gov.ph  
Telfax No. (048) 433-5638

April 19, 2022

**MEMORANDUM**

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

**FROM :** The Provincial Environment and  
Natural Resources Officer

**SUBJECT :** **ACTIVITY REPORT ON THE CONDUCTED COASTAL AND  
MARINE RESOURCE ASSESSMENT AND MONITORING FOR  
DRY SEASON 2022**

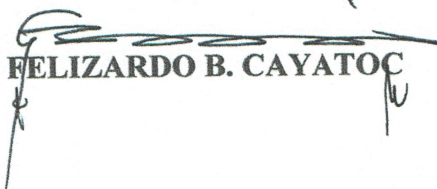
Forwarded is the memorandum dated April 12, 2022 regarding the above-mentioned subject.


As per report, a total of thirty-four (34) participants joined the activity, twenty (20) males and fourteen (14) females from BMB-CMD, ERDB-CZFERD, CENRO Roxas, CENRO Taytay CENRO Quezon, CENRO Puerto Princesa, City ENRO, PENRO Palawan – CDS and the Snake Island Management Office (SIMO) as host of the activity.

This will serve Means of Verification (MoV) for Snake Island NCMCR CY 2022 activities.

For information and record.



  
FELIZARDO B. CAYATOC

DENR PENRO  
PALAWAN RECORDS  
**RELEASED**  
BY:   
DATE: 20 2022 CN 2022-949



Republic of the Philippines  
Department of Environment and Natural Resources  
**MIMAROPA Region**  
**Provincial Environment and Natural Resources Office**  
Bgy. Sta. Monica, Puerto Princesa City, Palawan  
E-mail: penropalawan@denr.gov.ph  
Telfax No. (048) 433-5638

12 April 2022

**MEMORANDUM**

FOR : The Provincial Environment and  
Natural Resources Officer

THRU : The Chief,  
Technical Services Division

FROM : The Chief, Conservation and Development Section  
Snake Island Management Officer in concurrent capacity

SUBJECT : **ACTIVITY REPORT ON THE CONDUCTED COASTAL AND  
MARINE RESOURCE ASSESSMENT AND MONITORING FOR  
DRY SEASON 2022**

**DENR PENRO  
PALAWAN RECORDS  
RECEIVED**

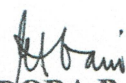
BY:   
DATE: 04-13-2022 22:31

Respectfully submitted is the activity report of Mr. Genesis Z. Ustares, Marine Biologist II, on the conducted coastal and marine resource assessment and monitoring at Snake Island – National Coastal and Marine Center for Research, Honda Bay, on April 4-8, 2022.

As per report, a total of thirty-four (34) participants joined the activity, twenty (20) males and fourteen (14) females with representatives from BMB-CMD, ERDB-CZFERD, CENRO Roxas, CENRO Taytay CENRO Quezon, CENRO Puerto Princesa, City ENRO, PENRO Palawan – CDS and the Snake Island Management Office (SIMO) as host of the activity.

This will serve Means of Verification (MoV) for Snake Island NCMCR CY 2022 activities. Attached is the copy of activity report, photo documentation and the attendance sheet.

For your information and further instructions.

  
**RHODORA B. UBANI**





## **ACTIVITY REPORT ON THE CONDUCTED COASTAL AND MARINE RESOURCE ASSESSMENT AND MONITORING FOR DRY SEASON 2022**

*April 4-8, 2022*

As part of the target activities of Snake Island – National Coastal and Marine Center for Research for CY 2022, the SIMO hosted the conduct of dry season coastal and marine resource assessment and monitoring at Snake Island NCMCR, Honda Bay on April 4-8, 2022. This activity will also treat as the post-damaged assessment on ecosystems of Snake Island brought by Typhoon Odette in Snake Island.

A total of thirty-four (34) participants joined the activity, twenty (20) males and fourteen (14) females with representatives from BMB – Coastal and Marine Division, ERDB – Coastal Zone and Freshwater Ecosystems Research Division, CENRO Roxas, CENRO Taytay CENRO Quezon, CENRO Puerto Princesa, City ENRO, PENRO Palawan – Conservation and Development Section and the Snake Island Management Office (SIMO) as host of the activity.

On day 1, upon arrival of the participants on the island, a levelling off meeting was done led by the undersigned that includes the team designation, method orientation and materials preparation. The following team were assigned in respective components:

<b>Corals &amp; Fish</b>	<b>Mangroves</b>	<b>Seagrass</b>	<b>Macrobenthos</b>	<b>Avifauna</b>
Lea Avilla (BMB)	Alvin Gestiaida (ERDB)	Mariche Natividad (ERDB)	Annieraj Velasco (ERDB)	Alon Velasquez (ERBD)
Dionisio Mahilum Jr. (SIMO)	Amelia Abecina (BMB)	Micah Bernales (ERDB)	Julius Landrito (SIMO)	Jacqueline Concepcion (BMB)
Precy Obrique (C-Taytay)	Jamael Masacal (SIMO)	Demi Decena (PENRO)	Prince BJ Medina (PENRO)	Myla Adriano (City ENRO)
Jo Annie Corvera (C- Roxas)	Mark Angel Lito (SIMO)	Clarisse Macola (PENRO)	Rojean Rosales (PENRO-OJT)	Fe Bolen (City ENRO)
Jether Manliguez (C- Quezon)	Hazzel Valones (City ENRO)	Chuckie Aguilos (C- Roxas)	Pia Mae Palay (PENRO-OJT)	Alonzo Padon (City ENRO)
Karl Aries Sumandal (C- Roxas)	Ken Sabuya (City ENRO)	Jerry Bautista (C-Quezon)		Rogelio Abison (C-PPC)
	Santos Cautala (City ENRO)			Jessie Escandalio (C-PPC)
	Jerry Lapian (City ENRO)			

On day 2, 3, 4 and 5, the assessment proper was done. Unfortunately, due to weather condition brought by Low Pressure Area (LPA), the corals and fish components were only





Republic of the Philippines  
Department of Environment and Natural Resources  
**MIMAROPA Region**  
**Provincial Environment and Natural Resources Office**  
Bgy. Sta. Monica, Puerto Princesa City, Palawan  
E-mail: penropalawan@denr.gov.ph  
Telfax No. (048) 433-5638

---

accomplished 4 out of 6 established stations. The remaining 2 stations will be surveyed by SIMO team once favorable weather condition shows. As per observation of the corals and fish team, the surveyed stations 1, 2, 5 & 6 shows that the dead corals were already covered by algae and shows no Recently Killed Corals (RKC) hence can be concluded that no damages brought by Typhoon Odette and fortunately shows promising fish biomass.

The mangroves team did the survey along with the damaged trees on the established permanent plots. They also re-painted and marked the permanent plots. Some of the fallen and/or damaged trees were cut down and treat the tree to prevent fungal infestation. As part of the cleaning of affected mangroves, a small chainsaw will be requested to use for cutting/trimming of the remaining damaged mangroves.

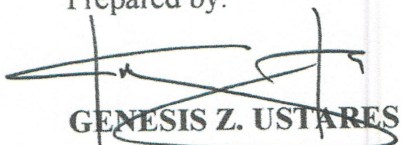
Due to Typhoon Odette, sand shift was occurred in the island resulting the covering of seagrass beds near the shoreline on monitoring station 1 hence started the transect line on around 3-4 feet deep. Fortunately, sand shift did not occur in other monitoring stations.

The avifauna team installed a mist net and traps for avian and fauna survey in Snake Island. Some birds were trap in installed mist net and was documented and then released. Presence of rodents were caught in the installed fauna trap and since it is an invasive species, it was drowned and buried in the sand. The team recommends for regular installation of rodent traps in the island for it may threatened other wildlife in the area.

Processing of CPCE coral reef data and fish visual census data were tasked to SIMO and will be submitted to ERDB for analysis, interpretation and technical writing. Raw data of mangroves, seagrass, associated macrobenthos and fauna were already obtained and processed by ERDB technical personnel. Moreover, data on avian survey will be forwarded to ERDB once it was submitted by the City ENRO.

This will serve Means of Verification (MoV) for Snake Island NCMCR CY 2022 activities. Attached is the photo documentation of the activity and attendance sheet. For your information and further instructions.

Prepared by:

  
**GENESIS Z. USTARES**  
Marine Biologist II





## PHOTO DOCUMENTATION



*Courtesy call of ERDB and BMB team to PENRO Cayatoc*



*Land transport and unloading of rented SCUBA tanks*

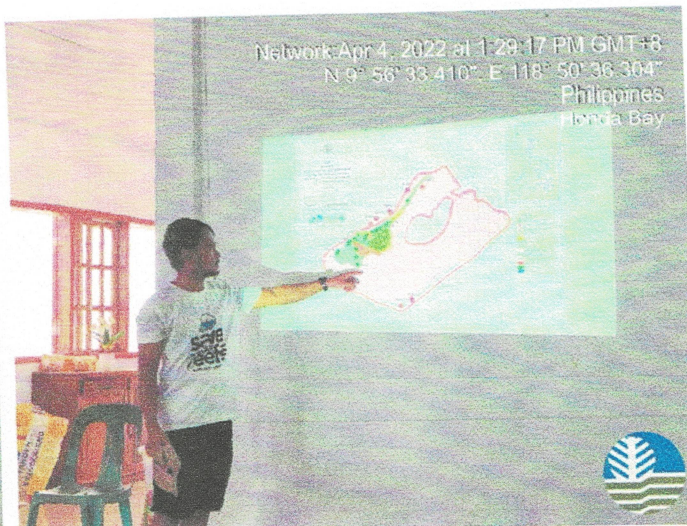


*Boat transfer of SCUBA tanks and other materials/equipment (left) and participants (right)*





Republic of the Philippines  
Department of Environment and Natural Resources  
**MIMAROPA Region**  
**Provincial Environment and Natural Resources Office**  
Bgy. Sta. Monica, Puerto Princesa City, Palawan  
E-mail: penropalawan@denr.gov.ph  
Telfax No. (048) 433-5638



*Levelling off meeting: designation of task, methodology orientation and material preparation*

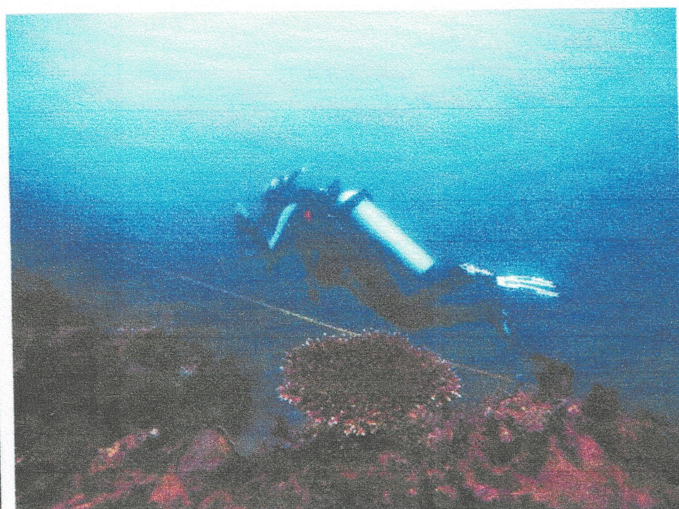
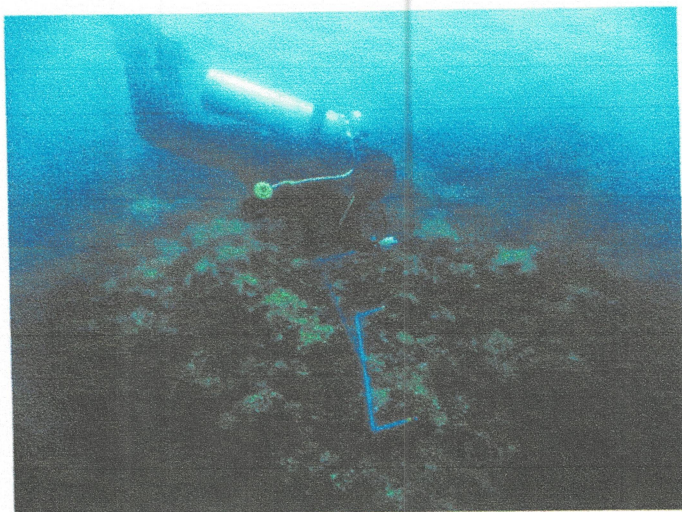




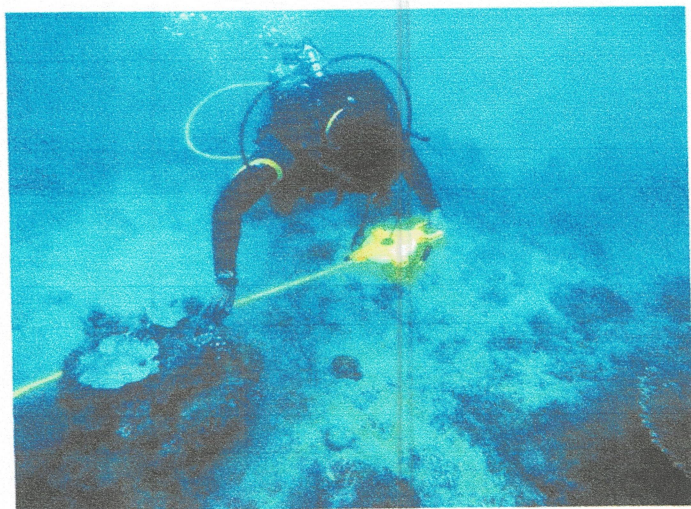
Republic of the Philippines  
Department of Environment and Natural Resources  
**MIMAROPA Region**  
**Provincial Environment and Natural Resources Office**  
Bgy. Sta. Monica, Puerto Princesa City, Palawan  
E-mail: penropalawan@denr.gov.ph  
Telfax No. (048) 433-5638



*Corals and Fish component team*



*Ms. Precy Obrique (left) doing the photo transect and Ms. Lea Avilla (right) doing the rugosity chain method*

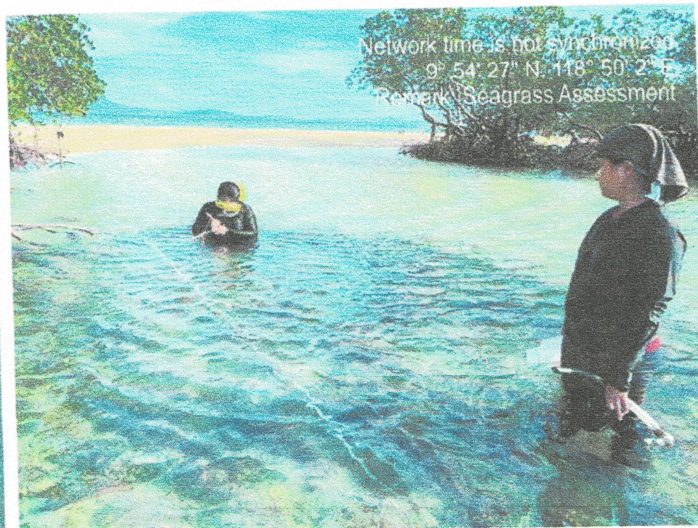


*Mr. Dionisio Mahilum Jr. (left) laying the transect tape. Mr. Karl Sumandal and Ms. Jo Annie Corvera (right) doing the fish visual census*

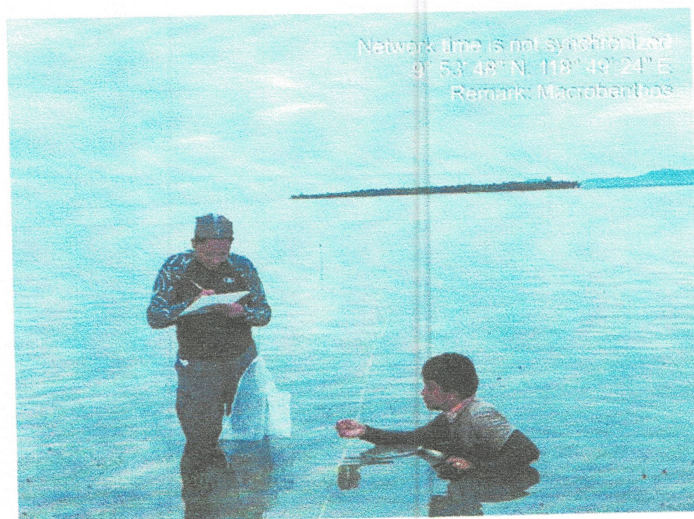




Republic of the Philippines  
 Department of Environment and Natural Resources  
**MIMAROPA Region**  
**Provincial Environment and Natural Resources Office**  
 Bgy. Sta. Monica, Puerto Princesa City, Palawan  
 E-mail: penropalawan@denr.gov.ph  
 Telfax No. (048) 433-5638



*Seagrass team during their surveys and group photo in the survey site*



*Associated macrobenthos component team during their survey and collection (left) and their group photo (right) in the survey site*

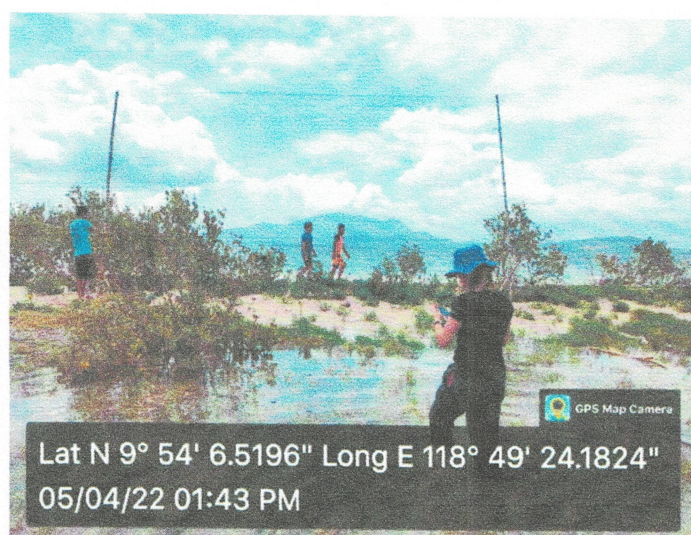




Republic of the Philippines  
Department of Environment and Natural Resources  
**MIMAROPA Region**  
**Provincial Environment and Natural Resources Office**  
Bgy. Sta. Monica, Puerto Princesa City, Palawan  
E-mail: [penropalawan@denr.gov.ph](mailto:penropalawan@denr.gov.ph)  
Telfax No. (048) 433-5638



*Ms. Annieraj Velasco of ERDB during macrobenthos species ID and documentation*



*Mist net installation of the fauna team*



*Fauna team during night survey (left) and trapped rodent*





Republic of the Philippines  
Department of Environment and Natural Resources  
**MIMAROPA Region**  
**Provincial Environment and Natural Resources Office**  
Bgy. Sta. Monica, Puerto Princesa City, Palawan  
E-mail: penropalawan@denr.gov.ph  
Telfax No. (048) 433-5638



*Mangroves component team during the survey and re-painting and marking the permanent plots*





Republic of the Philippines  
Department of Environment and Natural Resources  
**MIMAROPA Region**  
**Provincial Environment and Natural Resources Office**  
Bgy. Sta. Monica, Puerto Princesa City, Palawan  
E-mail: penropalawan@denr.gov.ph  
Telfax No. (048) 433-5638

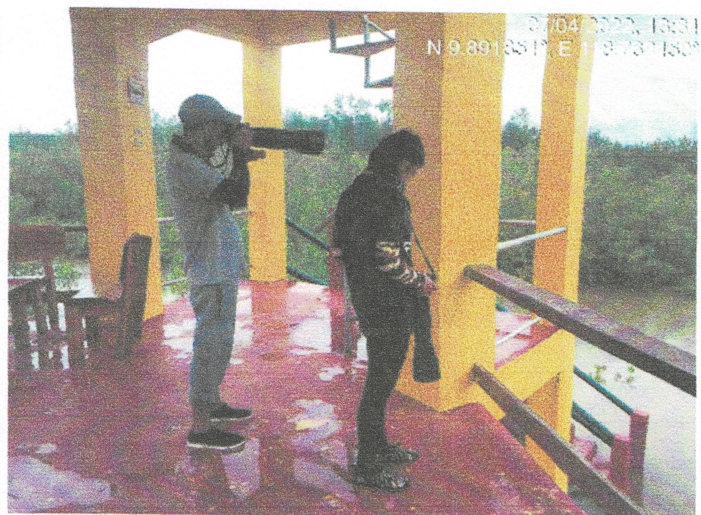
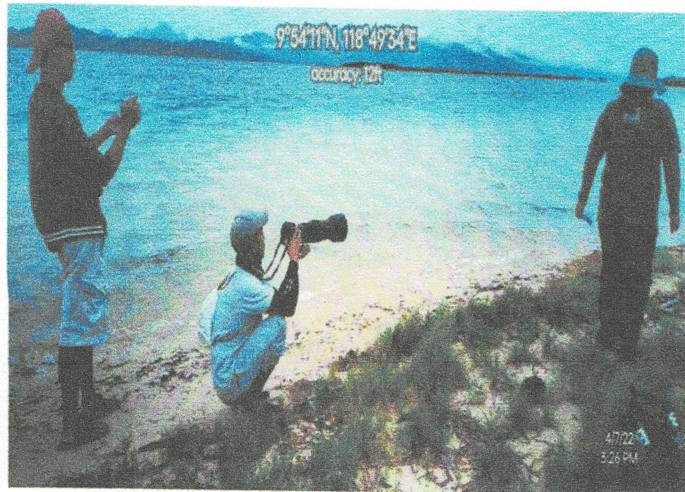


*City ENRO doing the trimming and treatment of damaged/felled mangroves trees*





Republic of the Philippines  
Department of Environment and Natural Resources  
**MIMAROPA Region**  
**Provincial Environment and Natural Resources Office**  
Bgy. Sta. Monica, Puerto Princesa City, Palawan  
E-mail: penropalawan@denr.gov.ph  
Telfax No. (048) 433-5638

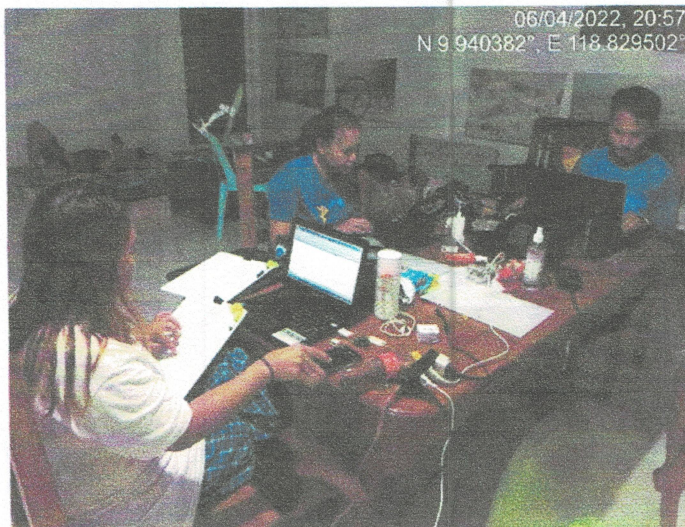


*Waterbirds component team during the survey*





Republic of the Philippines  
Department of Environment and Natural Resources  
**MIMAROPA Region**  
**Provincial Environment and Natural Resources Office**  
Bgy. Sta. Monica, Puerto Princesa City, Palawan  
E-mail: [penropalawan@denr.gov.ph](mailto:penropalawan@denr.gov.ph)  
Telfax No. (048) 433-5638



*Pre-processing of gathered raw data*



*Group photo of all participants after the levelling off meeting*





**MIMAROPA Region**  
**Provincial Environment and Natural Resources Office**  
Bgy. Sta. Monica, Puerto Princesa City, Palawan  
E-mail: [penropalawan@denr.gov.ph](mailto:penropalawan@denr.gov.ph)  
Telfax No. (048) 433-5638



*Group photo of seagrass team (left) and associated macrobenthos team (right)*



*Group photo of mangroves team (left) and fauna team (right)*



*Group photo of corals and fish team (left) and City ENRO team – combined waterbirds and mangroves component (right)*





Republic of the Philippines  
Department of Environment and Natural Resources  
**MIMAROPA Region**  
**Provincial Environment and Natural Resources Office**  
Bgy. Sta. Monica, Puerto Princesa City, Palawan  
E-mail: penropalawan@denr.gov.ph  
Telfax No. (048) 433-5638



*Coastal resource assessment participants during meals*