



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
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Telfax No. (048) 433-5638

DENR MIMAROPA RECORDS SECTION	
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BY: _____	DATE NO. _____
TIME: _____	

August 30, 2022

MEMORANDUM

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

THRU : The ARD for Technical Services

FROM : The Provincial Environment and
Natural Resources Officer

SUBJECT : **ACTIVITY REPORT ON CONDUCTED AUTONOMOUS REEF
MONITORING STRUCTURE (ARMS) MONITORING AT
SNAKE ISLAND NCMCR ON AUGUST 24, 2022**

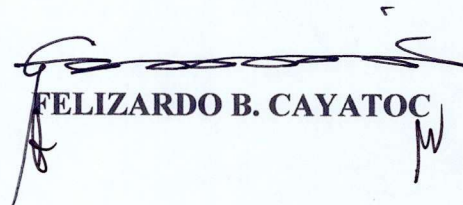
Forwarded is the memorandum dated August 25, 2022 of Research Assistant Edilita B. Demonguitan of Snake Island NCMCR.


As per report, the monitoring was conducted on August 24, 2022 to check the condition of the ARMS unit in 18 meters' depth in the deployment area (09°54'34" N, 118°49'47" E). The team was composed of PENRO CDS staff, Snake Island NCMCR and PCSDS certified divers. The visibility is clear at 3 meters' depth with a sea temperature of 31.9 °C, sightings of two (2) Damselfish (Pomacentridae), one (1) Butterfly fish (Chaetodontidae), one (1) Wrasse (Labridae) and new coral recruits and sponges were observed near the ARMS unit.

Further, in situ water sampling was also conducted near the location of ARMS unit by Research Assistant Edilita B. Demonguitan and CMEMP Extension Officer Prince BJ Medina. The results for pH level was normal but the results for temperature and salinity was a little higher compared to the standard level for Class SB- for ecotourism and recreational activities as per DAO 2016-08 "Water Quality Guidelines and General Effluent Standards of 2016"

For information and record.




FELIZARDO B. CAYATOC

DENR-PALAWAN
PENRO-RECORDS
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2022-7913



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August 25, 2022

MEMORANDUM

FOR : The Provincial Environment and Natural Resources Officer

THRU : The Chief,
Conservation and Development Section/SIMO

FROM : Edilita B. Demonguitan
Research Assistant, Snake Island NCMCR

SUBJECT : **ACTIVITY REPORT ON CONDUCTED AUTONOMOUS REEF MONITORING STRUCTURE (ARMS) MONITORING AT SNAKE ISLAND NCMCR ON AUGUST 24, 2022**

Respectfully submitted is the activity report of the undersigned on ARMS monitoring activity in Snake Island – National Coastal and Marine Center for Research.

A monthly schedule for ARMS monitoring was set on August 24, 2022 to regularly check the condition of the ARMS unit after its redeployment activity on July 27, 2022. The team was composed of PENRO CDS staff, Snake Island NCMCR certified divers: Marine Biologist II Genesis Z. Ustares, Research Assistant Jamael B. Masacal, Boat Captain Orlando S. Baylon, CMEMP Extension Officer Demi Patricia A. Decena and Mr. Martin Caligdong, a certified diver from PCSDS, carried out this month's monitoring activity.

The ARMS was spotted in the deployment area of Station 2 with coordinates 09°54'34" N, 118°49'47" E in 18 meters' depth with a visibility of 3 meters and a sea temperature of 31.9 °C and conducted appropriate actions. There's also sightings of two (2) Damselfish (Pomacentridae), one (1) Butterfly fish (Chaetodontidae) and one (1) Wrasse (Labridae). New coral recruits and sponges were also observed near the ARMS unit.

Further, in situ water sampling was also introduced by Marine Biologist II Genesis Ustares to the undersigned and CMEMP Extension Officer Prince BJ Medina and conducted water sampling near the location of the ARMS unit. The results are as follows:

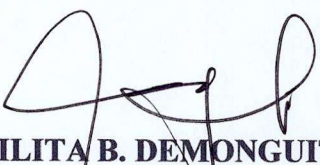
Location	09°54'37" N	118°49'49" E
Temperature	31.87	°C
pH	8.19	pH
ORP	266	mV
Conductivity	49.96	mS/cm
Turbidity	0	NTU
Dissolved Oxygen	4.92	mg/L
TDS	30.48	g/L
Salinity	32.70	ppt
Specific gravity	19.50	sigma t
Depth	5.52	m



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The Snake Island is part of the Honda Bay waters which is classified under Class SB- for ecotourism and recreational activities as per DAO 2016-08 "Water Quality Guidelines and General Effluent Standards of 2016". The result for temperature was a little higher compared to the standard temperature for Class SB: 26-30°C; the result for salinity level was also a bit higher compared to the standard salinity level which is 30 ppt; and the result for pH level was normal compared to the standard pH for Class SB: 7-8.5 pH.

For your information and further instructions.


EDILITA B. DEMONGUITAN

Noted by


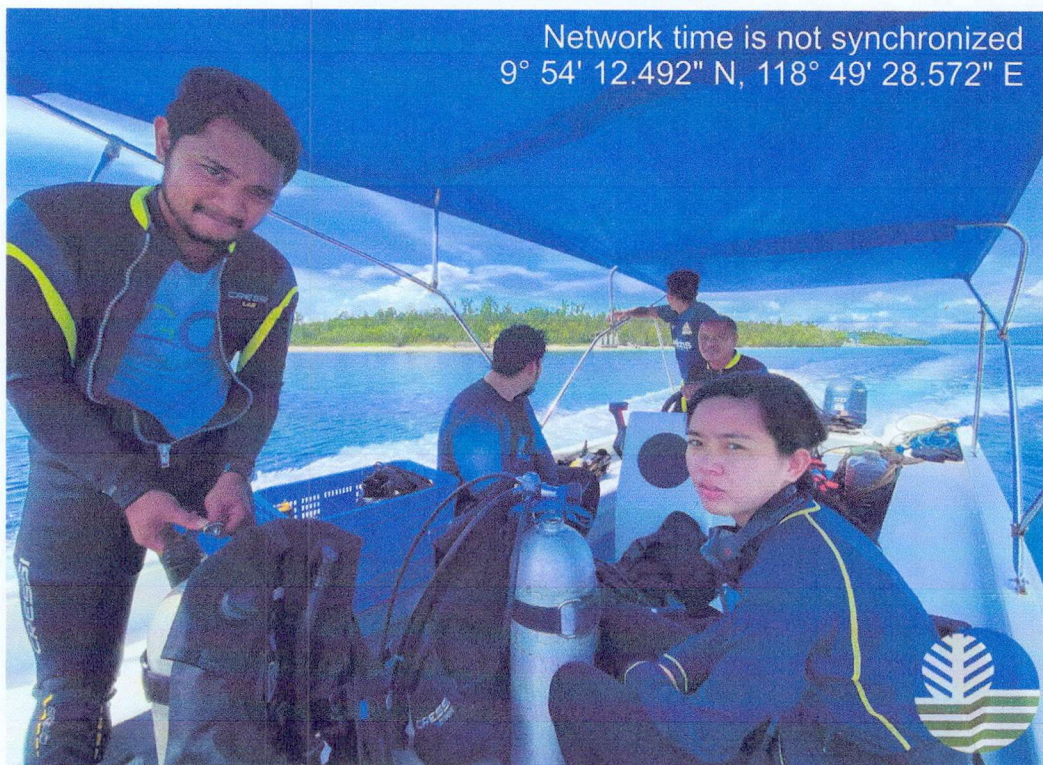

RHODORA B. UBANI
Chief, CDS/SIMO



PHOTO DOCUMENTATION



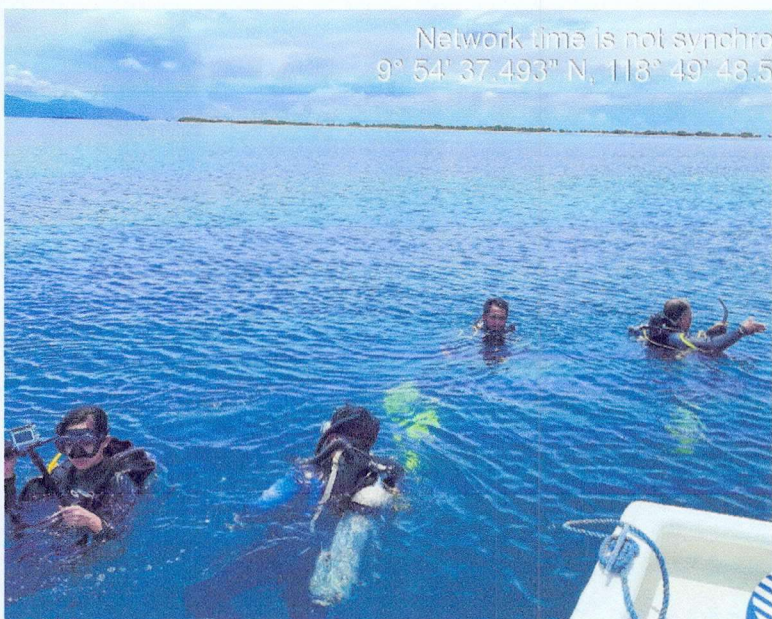
Monitoring team bound to deployment area



Research Assistant Edilita B. Demonguitan and CMEMP Extension Officer conducting water quality with the help of Marine Biologist Genesis Z. Ustares



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Monitoring team before diving to the deployment area (left) and RA Jamael B. Masacal securing the ARMS unit with Boat Captain Orlando S. Baylon (right)



Secured ARMS unit at 18 meters' depth