



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

November 23, 2022

**MEMORANDUM**

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

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

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

**SUBJECT** : **REPORT ON TURNED-OVER OF FOURTEEN (14) BY-CATCH  
HORSESHOE CRAB IN MEARA ISLAND, HONDA BAY**

Respectfully submitted the Memorandum dated November 18, 2022 from Marine Biologist Genesis Z. Ustares regarding the above-mentioned subject.

As per report, a fisherman named Mr. Ronald A. Reyes a resident of Brgy. Tagburos, turned over his by-catch of horseshoe crabs caught on Meara Island near Snake Island to on-duty staff on Snake Island with a total of fourteen (14) individuals and conducted data collection and other proper actions.

Attached is the copy of the report with the data collected on morphometric parameters, details on by-catch, and the photo documentation. Furthermore, the attached data will be forwarded to ERDB-CRERDEC as of the continuing data collection on their horseshoe crab study.

For information and record.



  
**FELIZARDO B. CAYATOC**

DENR-PALAWAN  
PENRO-RECORDS  
**RELEASED**  
By   
Date: **23 NOV 2022** **22-3154**



Republic of the Philippines  
Department of Environment and Natural Resources  
MIMAROPA Region  
**COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE**  
Bgy. Poblacion 5, Coron, Palawan  
Contact No.09175042633  
Email Address: cenrocoron@denr.gov.ph

DOCUMENT ACTION INFORMATION FORM

Doc. Ref. No.: 2022-10654

Date and Time received:

11/21/2022 11:27:07 am

From: GENESIS Z. USTARES & RHODORA B. UBANI

Document Type: Memorandums

PENRO-CDS

Subject: REPORT ON TURNED-OVER OF FOURTEEN (14) BY-CATCH HORSEHOE CRAB IN MEARA ISLAND, HONDA BAY

Attachment(s): PHOTO DOCS

Earmarked As :

Date: 11/21/22	From: OIC-TSD	To: Chif CDR
<b>Action Recommended/Required:</b> <input checked="" type="checkbox"/> For Action <input type="checkbox"/> For Approval <input type="checkbox"/> For Disbursement/ Payment <input type="checkbox"/> For Official Release <input type="checkbox"/> For Signature <input type="checkbox"/> For Review/ Recommendation <input type="checkbox"/> For Information, Record and File <input type="checkbox"/> For Indorsement to concerned Party(ies) <input type="checkbox"/> Return to Payee/Sender	<b>Processing Time:</b> <input type="checkbox"/> Urgent (w/in the day) <input type="checkbox"/> Priority (w/in 3 days) <input type="checkbox"/> Complex w/in 7 days w/in 20 days or shorter W/in _____ days or shorter	<b>Other Instruction(s):</b> FYI & Indorsement to R.O 11/22/22 2:10 pm
Date: 11/22	From: CDS	To: Julius
<b>Action Recommended/Required:</b> <input checked="" type="checkbox"/> For Action <input type="checkbox"/> For Approval <input type="checkbox"/> For Disbursement/ Payment <input type="checkbox"/> For Official Release <input type="checkbox"/> For Signature <input type="checkbox"/> For Review/ Recommendation <input type="checkbox"/> For Information, Record and File <input type="checkbox"/> For Indorsement to concerned Party(ies) <input type="checkbox"/> Return to Payee/Sender	<b>Processing Time:</b> <input type="checkbox"/> Urgent (w/in the day) <input type="checkbox"/> Priority (w/in 3 days) <input type="checkbox"/> Complex w/in 7 days w/in 20 days or shorter W/in _____ days or shorter	<b>Other Instruction(s):</b> for forward action pt.
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<b>Action Recommended/Required:</b> <input type="checkbox"/> For Action <input type="checkbox"/> For Approval <input type="checkbox"/> For Disbursement/ Payment <input type="checkbox"/> For Official Release <input type="checkbox"/> For Signature <input type="checkbox"/> For Review/ Recommendation <input type="checkbox"/> For Information, Record and File <input type="checkbox"/> For Indorsement to concerned Party(ies) <input type="checkbox"/> Return to Payee/Sender	<b>Processing Time:</b> <input type="checkbox"/> Urgent (w/in the day) <input type="checkbox"/> Priority (w/in 3 days) <input type="checkbox"/> Complex w/in 7 days w/in 20 days or shorter W/in _____ days or shorter	<b>Other Instruction(s):</b>

Printed on 11/21/2022 11:34:15am Received at: OFFICE OF THE PENRO Received by: ALMINE, ALYSSA





Republic of the Philippines  
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Bgy. Sta. Monica, Puerto Princesa City, Palawan  
E-mail: penropalawan@denr.gov.ph  
Telfax No. (048) 433-5638

18 November 2022

**MEMORANDUM**

**FOR** : Provincial Environment and  
Natural Resources Officer

**THRU** : The OIC Chief, Technical Services Division

The Chief, Conservation and Development Section  
Snake Island Management Officer (SIMO) in concurrent capacity

**FROM** : Genesis Z. Ustares  
Marine Biologist II, Snake Island NCMCR

**SUBJECT** : **REPORT ON TURNED-OVER OF FOURTEEN (14) BY-CATCH  
HORSESHOE CRAB IN MEARA ISLAND, HONDA BAY**

**DENR PENRO  
PALAWAN RECORDS  
RECEIVED**

BY:                       
DATE: 12-2022 CN 22-10654

Respectfully submitted is the report of the undersigned regarding on the turned-over of fourteen (14) by-catch Horseshoe crab caught in Meara Island, Honda Bay.

On November 17, 2022, a fisherfolk named Mr. Ronald A. Reyes of Barangay Tagburos, turned-over the fourteen (14) by-catch Horseshoe crab to the on-duty staff of Snake Island and gathered the below morphometrics parameters. The by-catch horseshoe crabs were caught in Meara Island, an island with approximately 4.5 kilometers away from Snake Island thru a crab gill net with 1,500 meters in length soaked within 12 hours' period. After gathering the parameters, all horseshoe crab was marked with codes and was released back to the sea.

<b>Morphometrics Parameters</b>	<b>SIBCTT- 109 (Female) (cm)</b>	<b>SIBCTT- 110 (Male) (cm)</b>	<b>SIBCTT- 111 (Female) (cm)</b>	<b>SIBCTT- 112 (Female) (cm)</b>	<b>SIBCTT- 113 (Female) (cm)</b>
Prosomal Length (PL)	16.3	13.8	10.9	10	9.8
Prosomal Width (PW)	26.1	26	18.6	17	17.2
Telson Length (TEL)	23.1	25	22.4	18.1	19
Intraocular Distance (IO)	15	14.6	11	9.5	9.6
Carapace Length (CL)	28.9	28.1	22.3	19.5	19.2
Opisthosomal Length (OL)	12.6	14.3	11.4	9.5	9.4
Opisthosomal Width (OW-1)	14.5	13.2	9.8	9.1	9
Opisthosomal Width (OW-2)	15.9	16	12	11	11.3
Opisthosomal Width (OW-3)	16.6	17.2	13.6	12.1	12.3
Anal Angle (AA)	6.5	7.5	5.6	4.5	4.9
Total Length (TL)	52	53.1	44.7	37.6	43.2





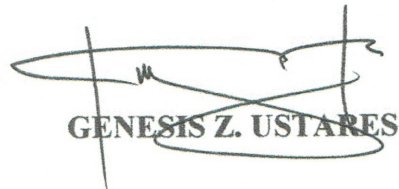
Republic of the Philippines  
Department of Environment and Natural Resources  
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E-mail: penropalawan@denr.gov.ph  
Telfax No. (048) 433-5638

<b>Morphometrics Parameters</b>	<b>SIBCTT-114</b> (Female) (cm)	<b>SIBCTT-115</b> (Female) (cm)	<b>SIBCTT-116</b> (Female) (cm)	<b>SIBCTT-117</b> (Female) (cm)	<b>SIBCTT-118</b> (Male) (cm)
Prosomal Length (PL)	11.5	7.8	8.5	9	11.5
Prosomal Width (PW)	19.5	14.8	15.2	17.3	22.5
Telson Length (TEL)	24	16	12.2	14.8	20.6
Intraocular Distance (IO)	11.2	8	8.5	8.8	11.5
Carapace Length (CL)	23.7	15.8	18.4	18.5	23.5
Opisthosomal Length (OL)	12.2	8	9.9	9.5	12
Opisthosomal Width (OW-1)	10.3	7.4	8.1	7.9	10.8
Opisthosomal Width (OW-2)	13.2	9.1	10.2	9.8	13
Opisthosomal Width (OW-3)	15	10.4	11.5	11.4	14.6
Anal Angle (AA)	5.6	4	4.4	4.5	5.8
Total Length (TL)	47.7	31.8	30.6	33.3	44.1

<b>Morphometrics Parameters</b>	<b>SIBCTT-119</b> (Male) - <i>damaged</i> <i>carapace</i> (cm)	<b>SIBCTT-120</b> (Female) (cm)	<b>SIBCTT-121</b> (Male) (cm)	<b>SIBCTT-122</b> (Male) (cm)
Prosomal Length (PL)	13.4	8.8	13.6	13.5
Prosomal Width (PW)	23.5	16	23.9	24.6
Telson Length (TEL)	26.2	19.2	27	26
Intraocular Distance (IO)	12.4	8.9	13.7	13.2
Carapace Length (CL)	26.5	17.6	26	26.6
Opisthosomal Length (OL)	13.1	8.8	12.4	13.1
Opisthosomal Width (OW-1)	11.1	8.1	11.8	11.1
Opisthosomal Width (OW-2)	13.6	9.8	15	15
Opisthosomal Width (OW-3)	15.3	11.3	16.1	16.5
Anal Angle (AA)	5.8	7.4	6.5	6.2
Total Length (TL)	52.7	36.8	53	52.6

The said data will be forward to ERDB-CRERDEC as part of the continuing data gathering for the horseshoe crab study. Attached is the photo documentation of the activity.

For your information and further instructions.

  
**GENESIS Z. USTARES**

Noted by:

  
**RHODORA B. UBANI**  
Chief, CDS/SIMO





### PHOTO DOCUMENTATION

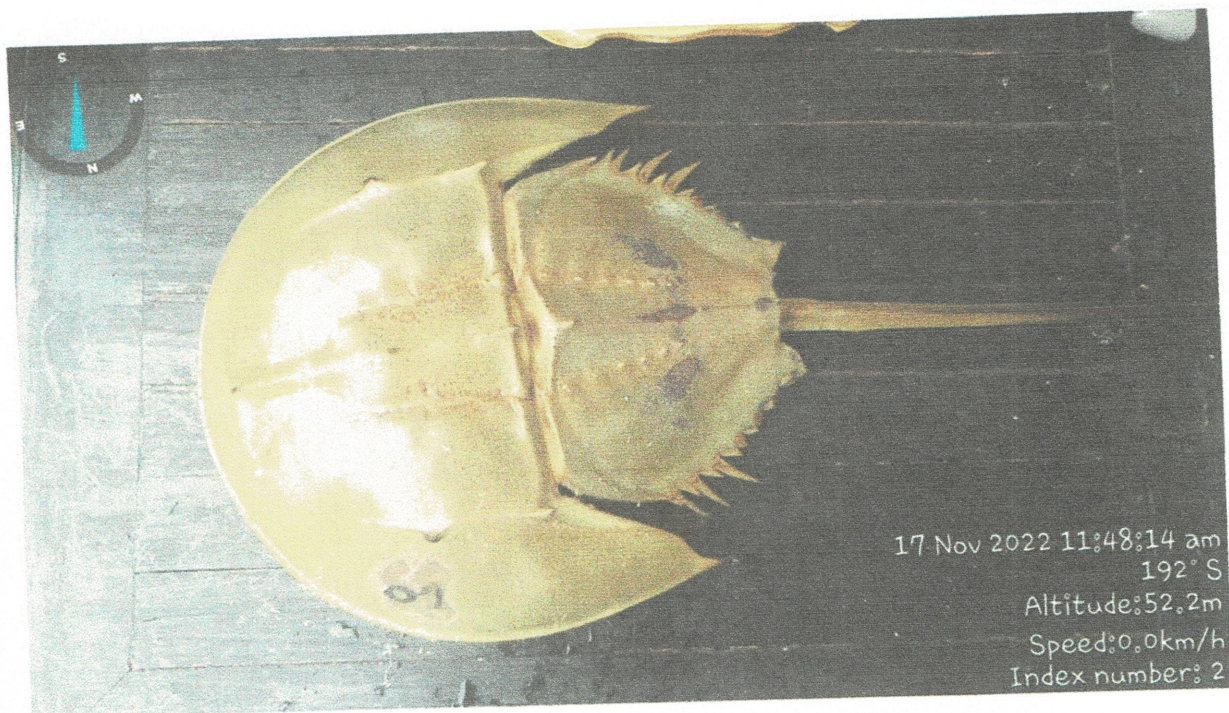


*Messrs. Monticod, Masacal and the undersigned gathering the morphometrics parameters of Horseshoe crab*





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*Photos of Horseshoe crab before releasing back to the sea*