



# MAXIMUM FLOOD HEIGHT ASSIGNMENT 7

RIVER SCAN CHALLENGE 2024

## PROPONENTS:

BOLANDRES, MICHAEL  
CATUBIG, JEREMIAH JOSE  
CENIZA, ANDREI JEREMY  
EVARDO, KRISTIAN  
JONG DE, ISABEL  
LIM, JUSTIN  
MASPARA, KHENT BRAEVEN  
MATIDIOS, HENRY JOSEPH  
PITOGO, AUBREY JEAN  
PRIOR, JEWEL  
RATILLA, EMMANUEL NATHAN  
SIA, RAEZACH  
TAN, MARC  
TROZO, VENGIE ROQUE  
UGALDE, VOLTAIRE JOSEPH  
WAYWAY, MARCO  
YAP, THERESE RYANNE

**with the participation of**

*DASH Student:*

SIA, RAEZACH

*Political Science Students:*

AMPER, FRITZIE  
ARQUILLANO, ARABELLA  
ASUMEN, PRINCESS  
BESAÑES, SHALYMAR  
BINGONA, MOIRA  
BORJA, PRINCESS  
CAGANG, KEAN  
CARREDO, BERNEL



ORGANIZED BY:



IN PARTNERSHIP WITH:



## 3.1 Maximum Flood Height

The members of the Cantiriver Team conducted interviews with Sitio Tangkong locals in order to ascertain the maximum flood height. By utilizing a measuring tape, the selected residents indicated an estimate of the maximum flood height they have experienced in their area.



### Significance of Points **A** and **B**

Both points are situated inside the severely affected area in Brgy. Paknaan's Flood hazard map.

## Point A - Along the Downstream Butoanon River

**Latitude:**  
**10°20'26.59"N**

**Longitude:**  
**123°57'34.98"E**

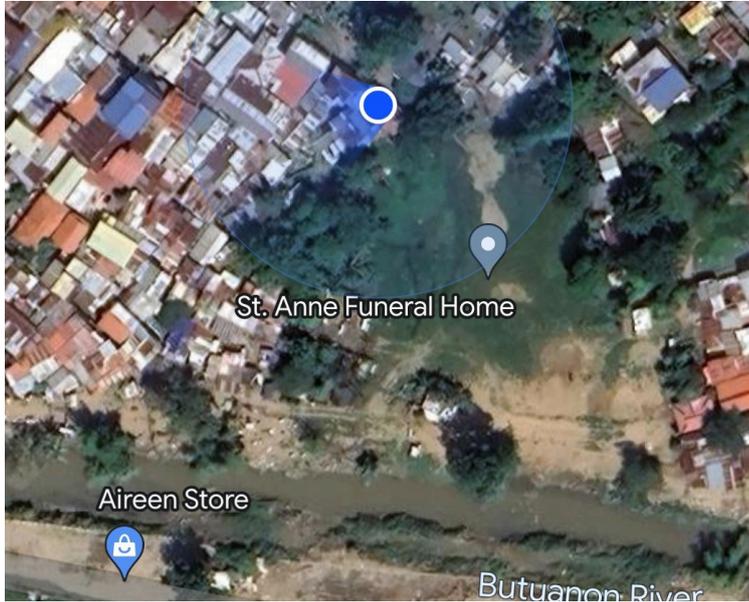


This resident who resides near the river points out the highest recorded flood she can remember, which is measured to be 1.6891 meters

**Ground Level to Flood  
Height = 1.6891 m**

**River surface area to  
Flood Height  
= 1.6891 + 2.5908  
= 4.2799 m**

## Point B - Edge of Severely Affected Area



**Latitude:**

**10°20'28.85"N**

**Longitude:**

**123°57'34.64"E**

This resident who resides at the edge of the severely affected flood hazard map indicates height to be 0.7366 meters

$$\begin{aligned} \text{Ground Level to Flood Height} &= \mathbf{0.7366 \text{ m}} \\ \text{River surface area to Flood Height} \\ &= 0.7366 + 2.5908 \\ &= \mathbf{3.3274 \text{ m}} \end{aligned}$$

