

# Observations from the 08 June 2026 Mw 7.8 Offshore Sarangani, Philippines Earthquake: A PSSMGE Report

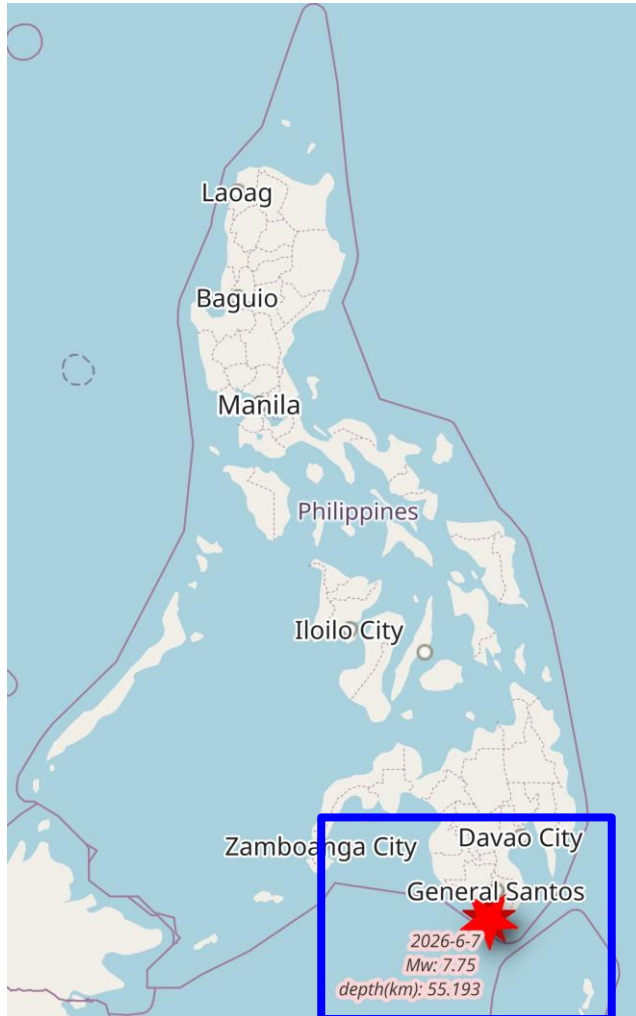
June 2026



# **THE 08 JUNE 2026 MW 7.8 OFFSHORE SARANGANI EARTHQUAKE**

# EARTHQUAKE EVENT INFORMATION

## PH MAP



## PHIVOLCS PRIMER

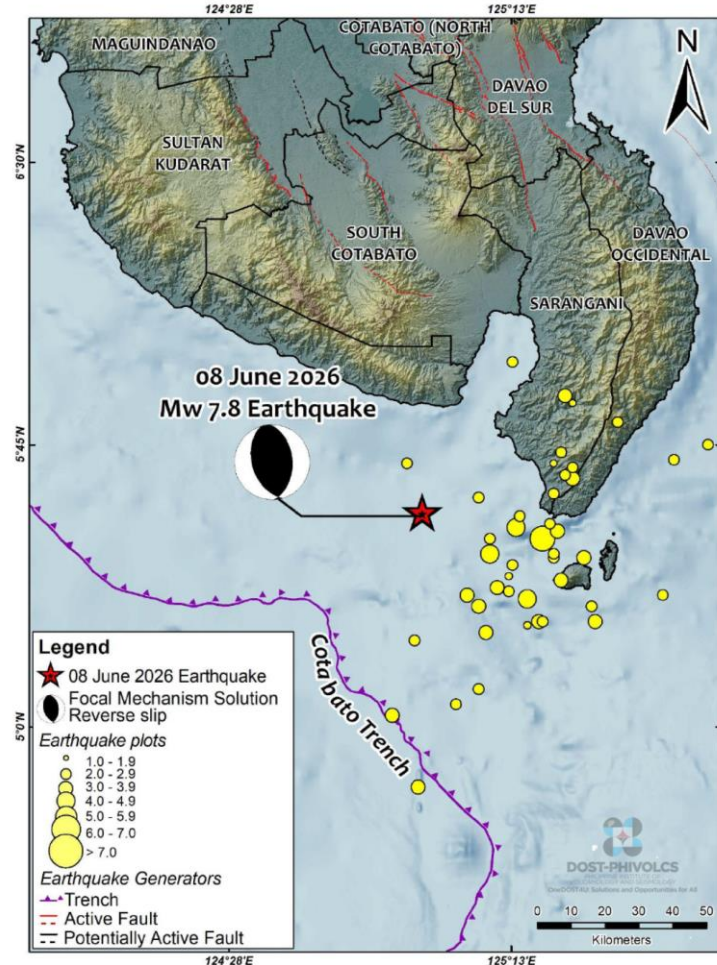
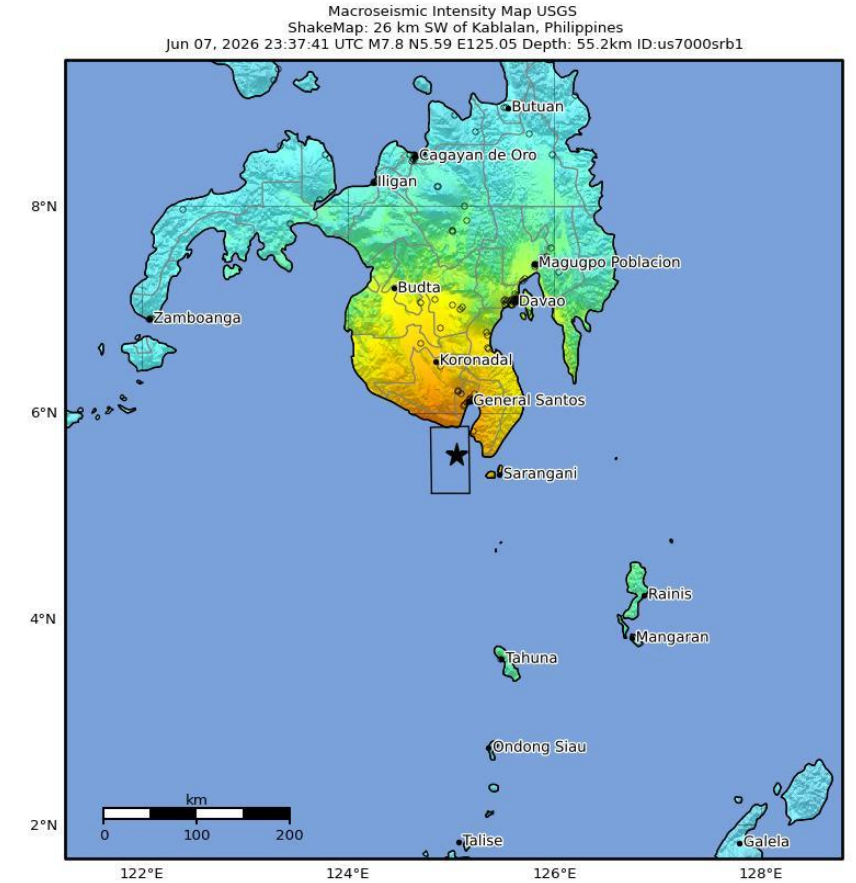


Figure 1. Plot of the 08 June 2026 Magnitude 7.8 Offshore Sarangani Earthquake and aftershocks as of 12:00 PM.

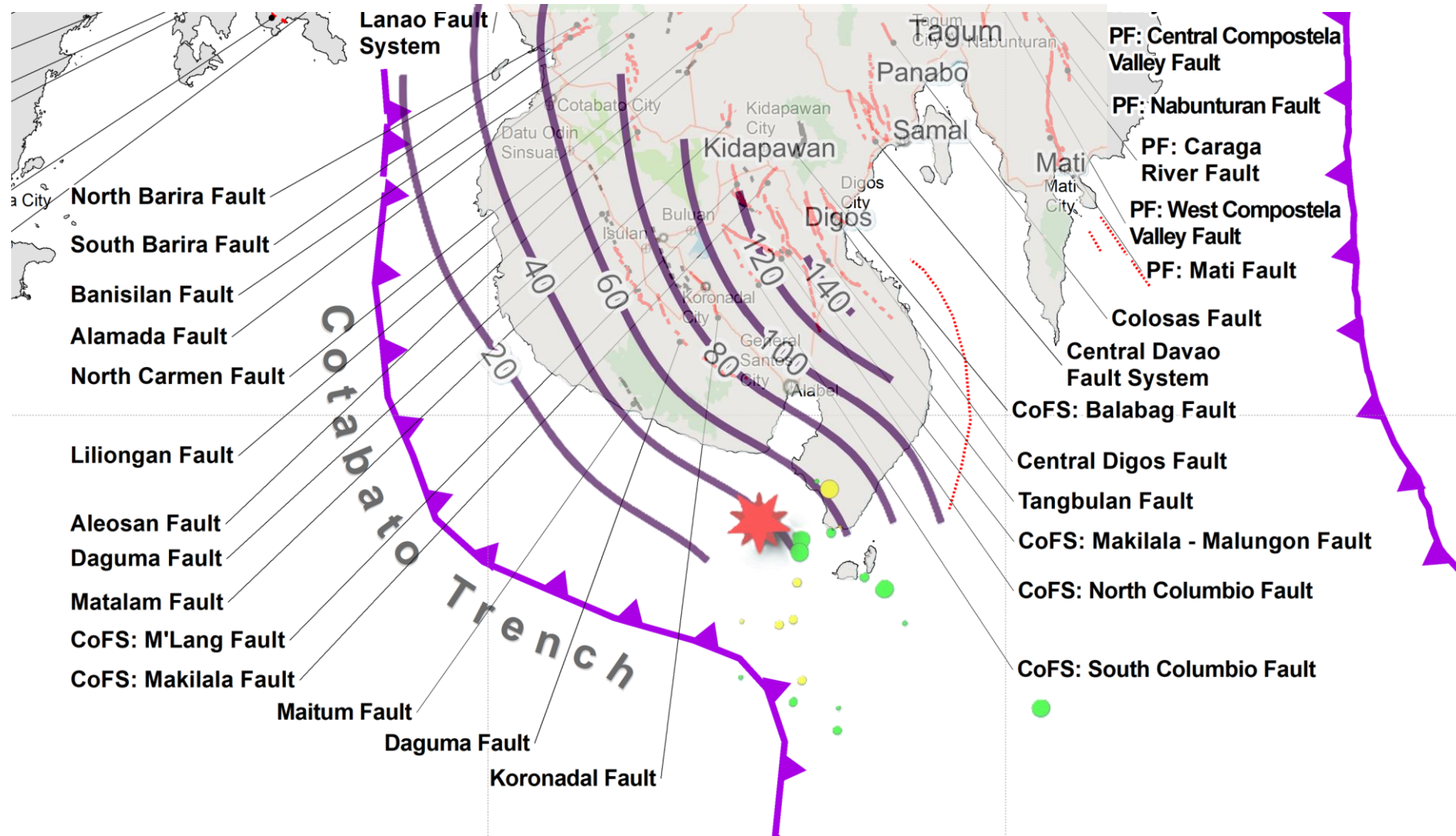
## USGS SHAKEMAP



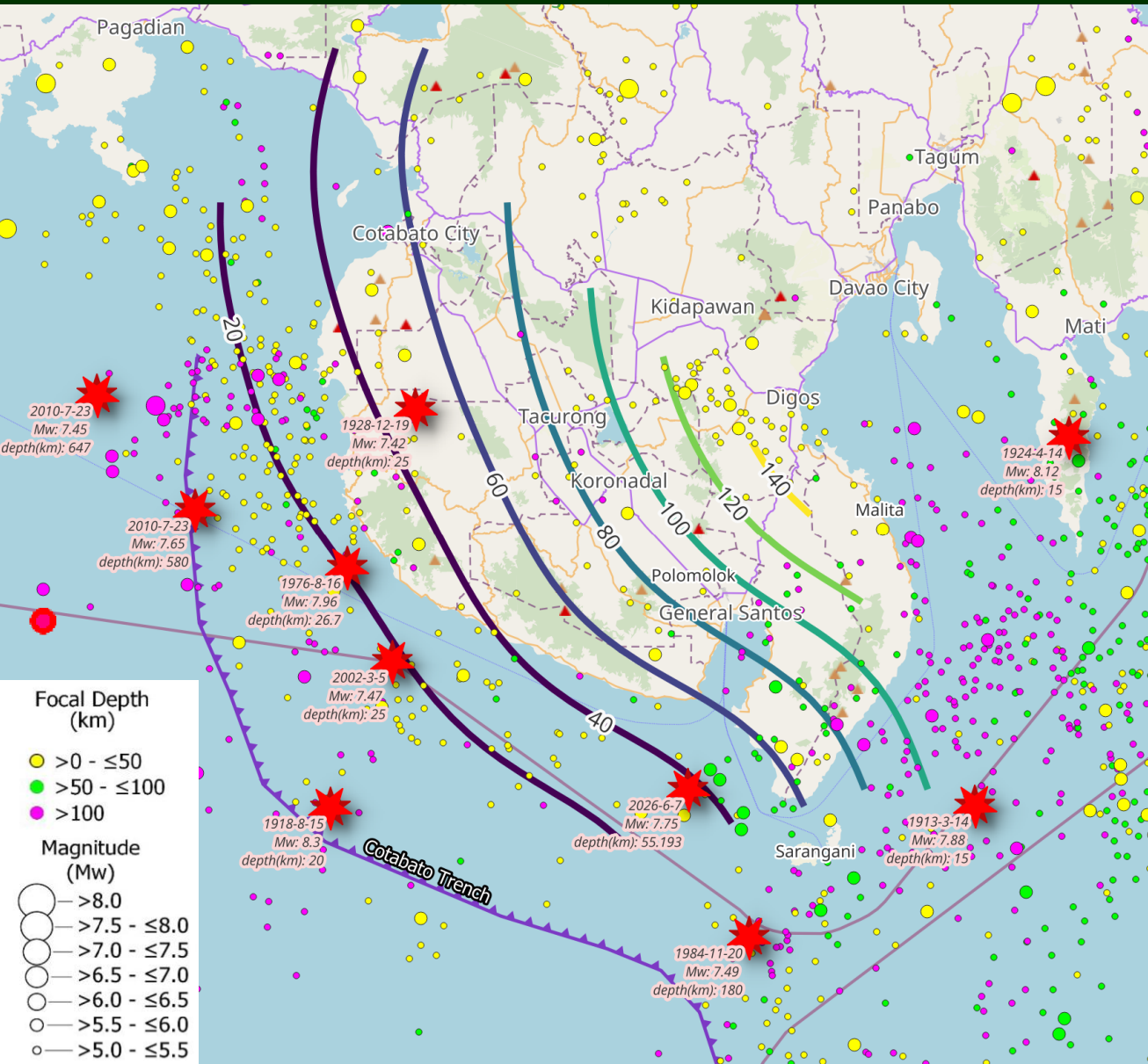
SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
DAMAGE	None	None	None	Very light	Light	Moderate	Moderate/heavy	Heavy	Very heavy
PGA(%g)	<0.0464	0.297	2.76	6.2	11.5	21.5	40.1	74.7	>139
PGV(cm/s)	<0.0215	0.135	1.41	4.65	9.64	20	41.4	85.8	>178
INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+

Scale based on Worden et al. (2012) Version 5: Processed 2026-06-09T00:02:57Z  
 △ Seismic Instrument ○ Reported Intensity ★ Epicenter □ Rupture

# FAULT MAP AND COTABATO TRENCH



# 100-YEAR SEISMICITY RECORD

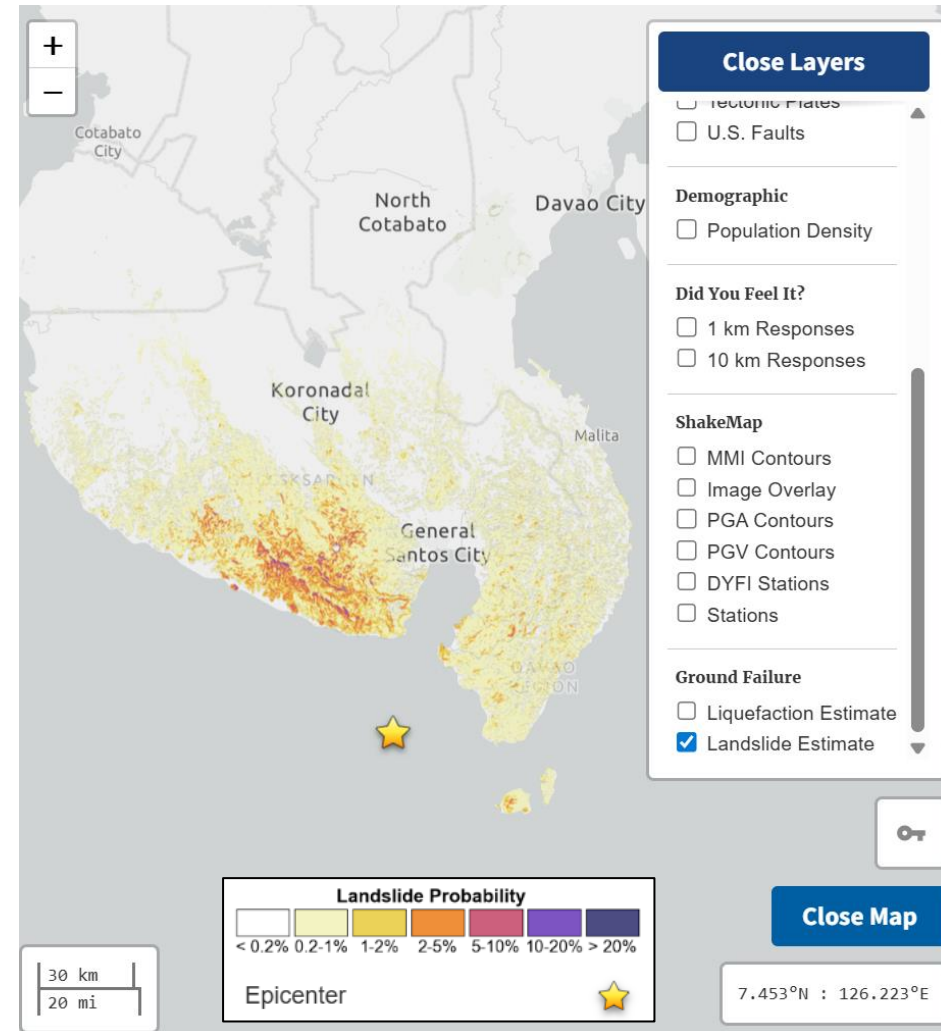
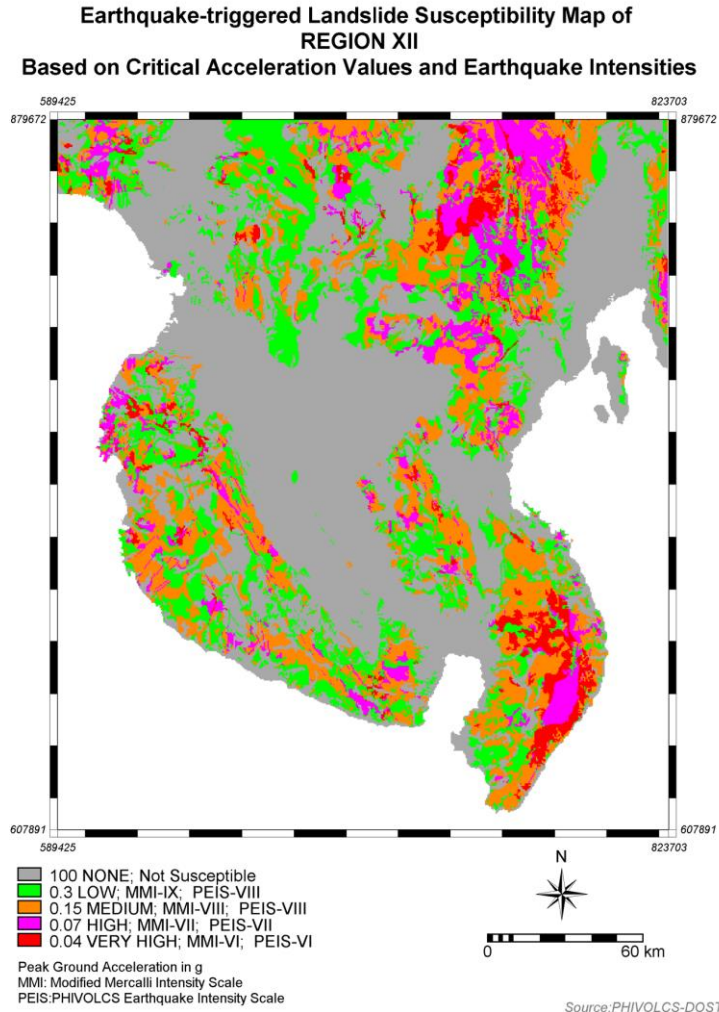


- The region around this earthquake is tectonically active and large earthquakes are common.
- Since the beginning of the 20<sup>th</sup> century, 35 earthquakes with a magnitude of M 7+ have occurred within 300 km of this event.
- The largest was a magnitude 8.3 earthquake on August 15th, 1918 that occurred 118 km to the west.



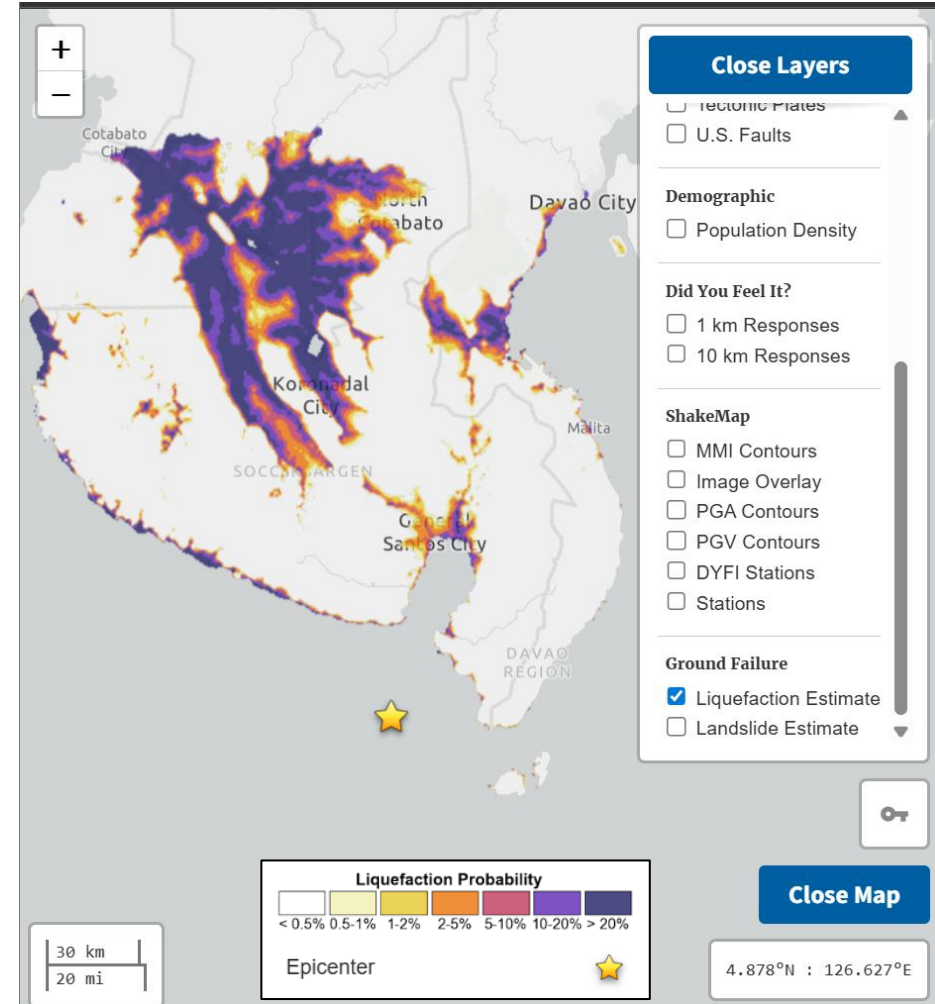
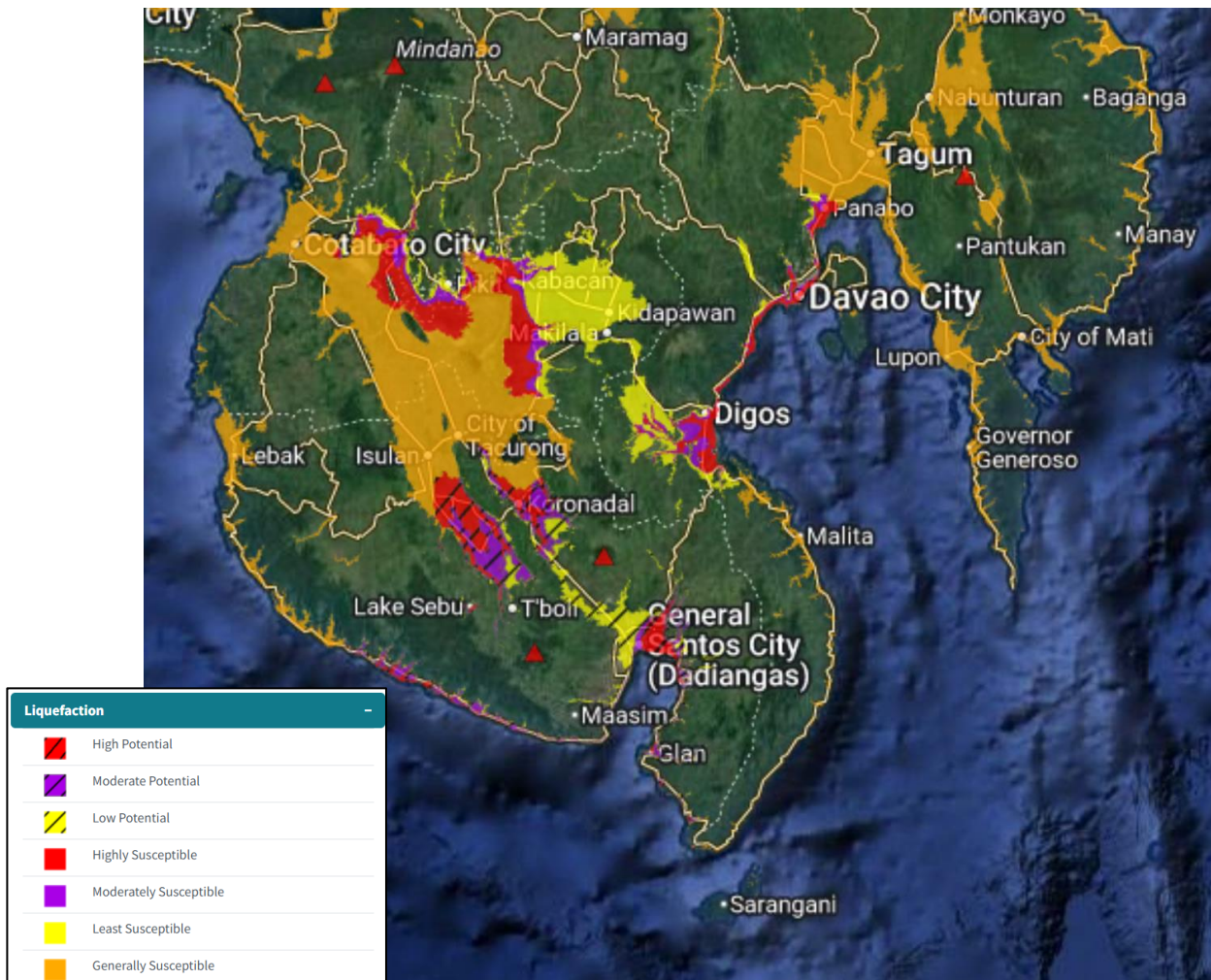
# HAZARD MAP – LANDSLIDE SUSCEPTIBILITY

## Landslide Susceptibility



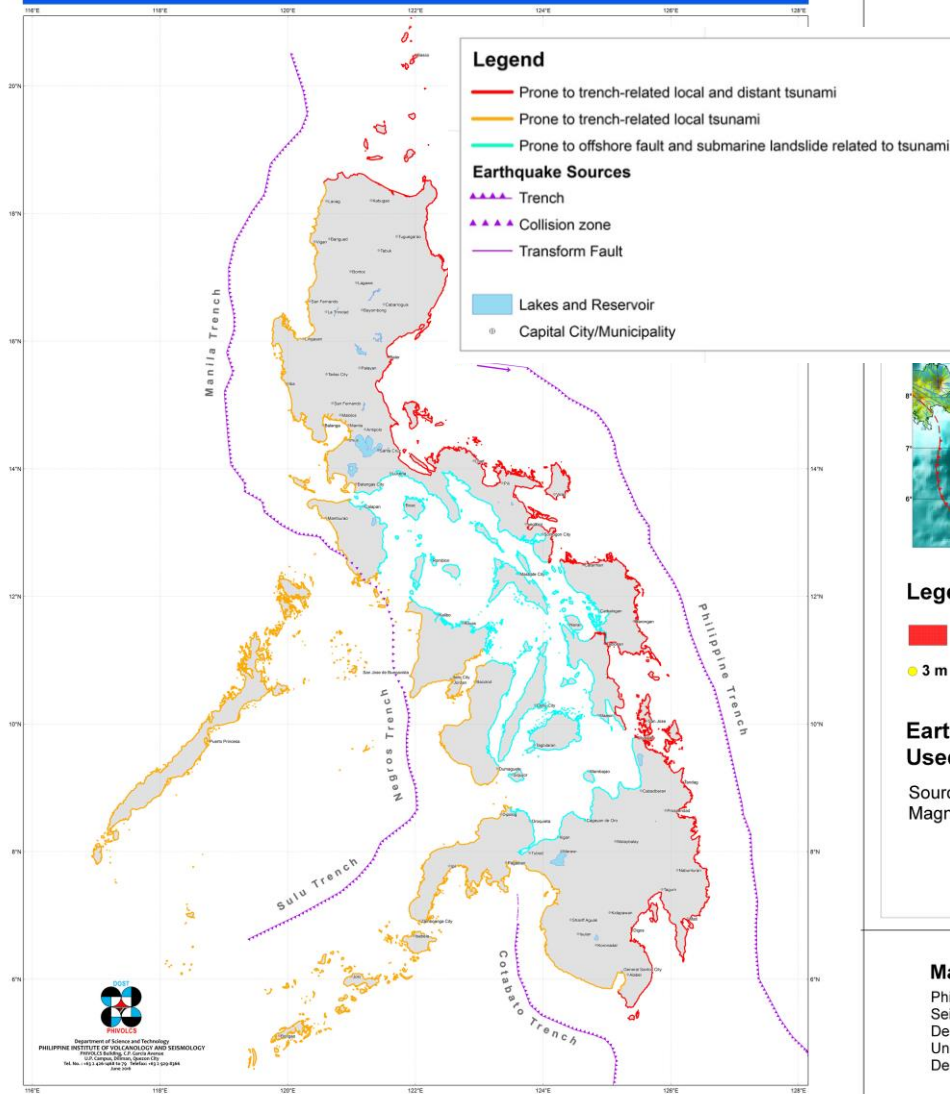
# HAZARD MAP - LIQUEFACTION

## Liquefaction Susceptibility

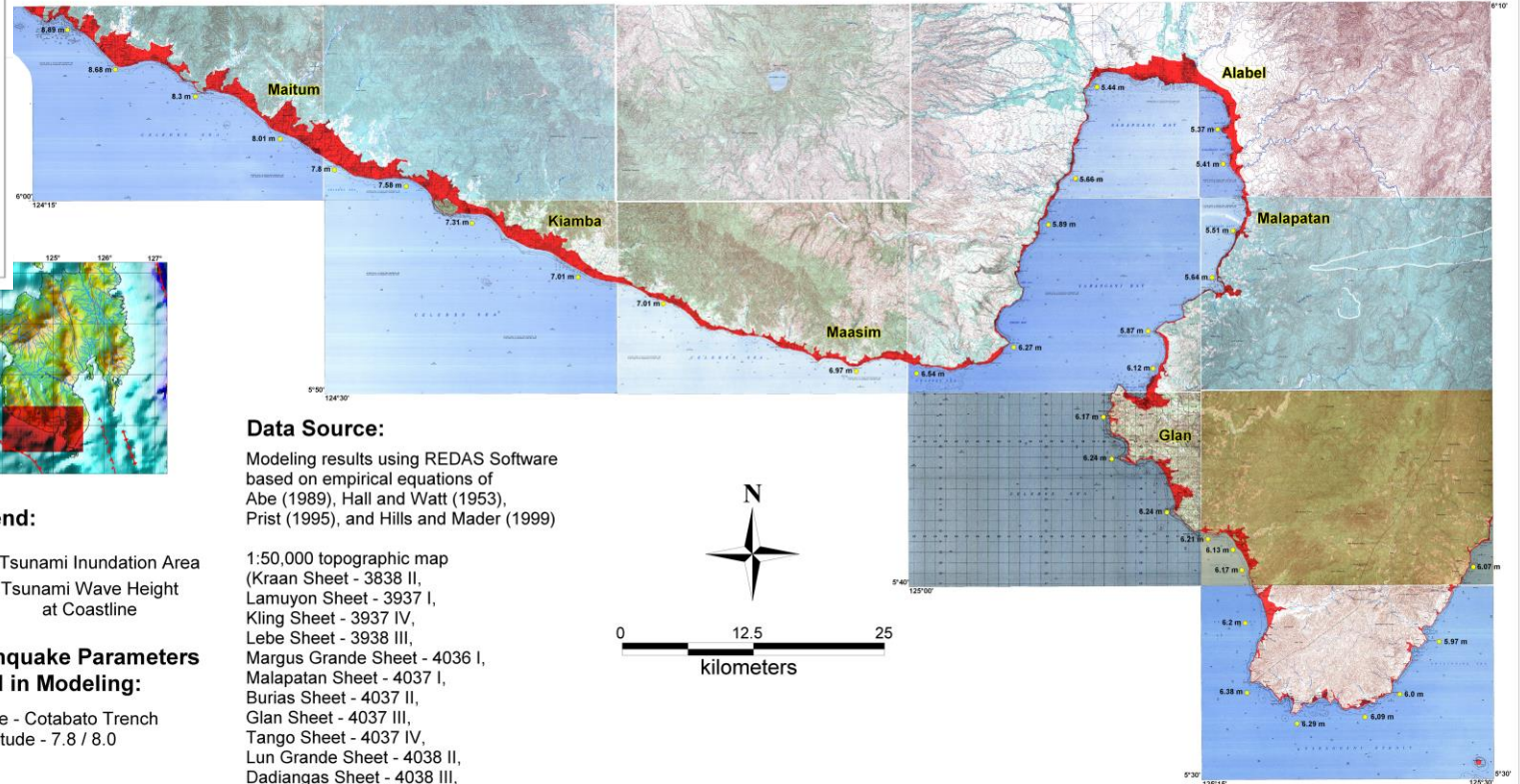


# HAZARD MAP - TSUNAMI

## Tsunami Prone Areas in the Philippines

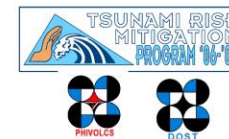


## TSUNAMI HAZARD MAP Sarangani Province



### Map Prepared By:

Philippine Institute of Volcanology and Seismology (PHIVOLCS) -  
Department of Science and Technology (DOST)  
Under the DOST-GIA Program  
December 2007



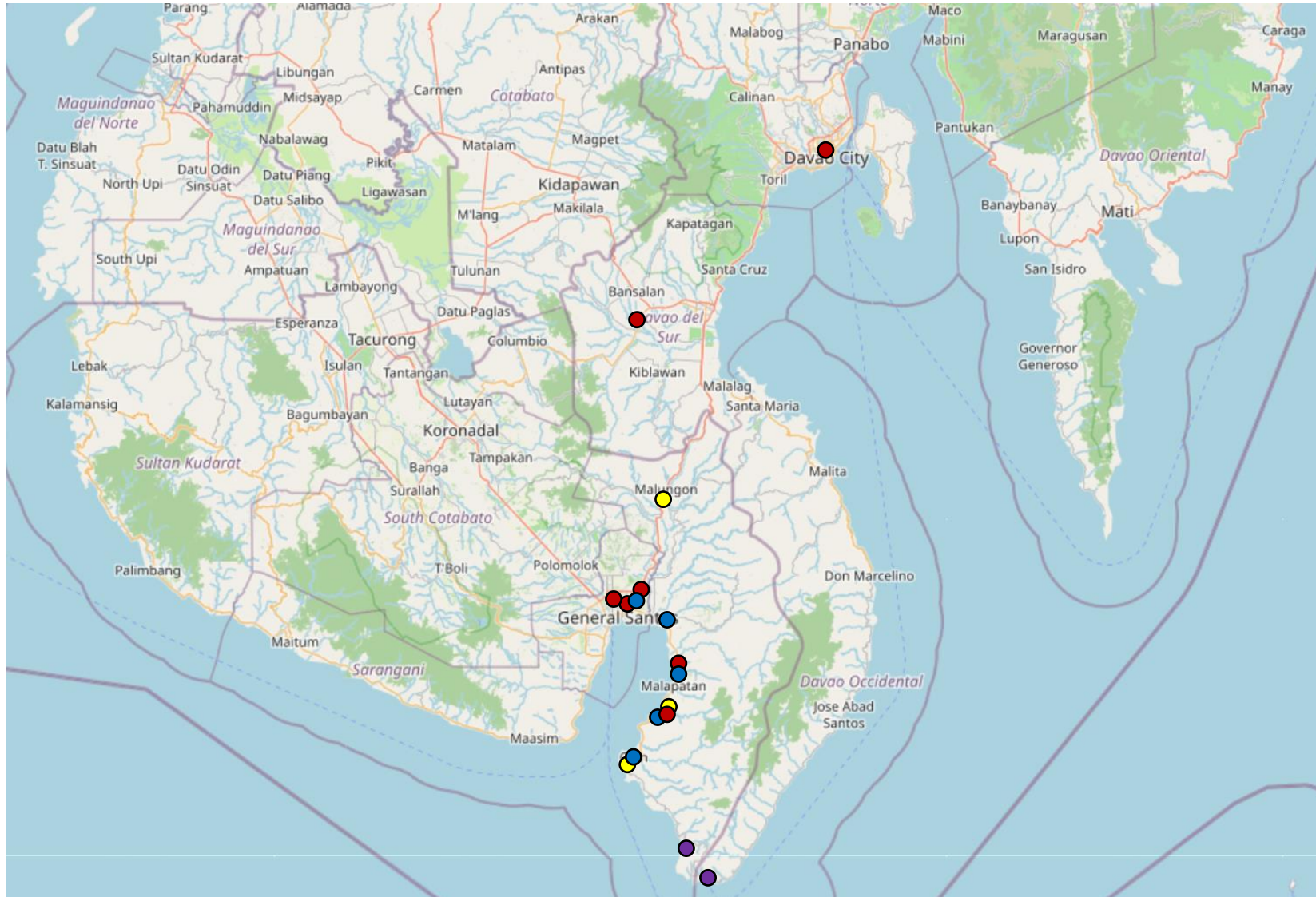
### Explanation:

This indicative map is based on maximum computed wave height and inundation using worst case scenario earthquakes from major offshore source zones. The indicated wave height decreases away from the shoreline.

# **IMPACTS ON THE COMMUNITY AND EARTHQUAKE AFTERMATH OBSERVATIONS**

- June 11 to 12, 2026

# EARTHQUAKE IMPACT LOCATIONS



## LEGEND:

- Damaged / Collapsed infrastructures
- Ground Deformations / Lateral Spreading
- Landslide
- Coastal uplift

*Note: Some locations were validated through field reconnaissance, while others were identified from PHIVOLCS, LGU reports, news sources, and other secondary information.*

# DAMAGED INFRASTRUCTURE

## Fast Food Chains in General Santos City

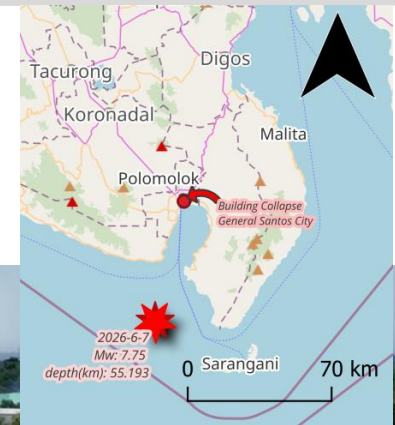


Photos taken on 11 June 2026



# DAMAGED INFRASTRUCTURE

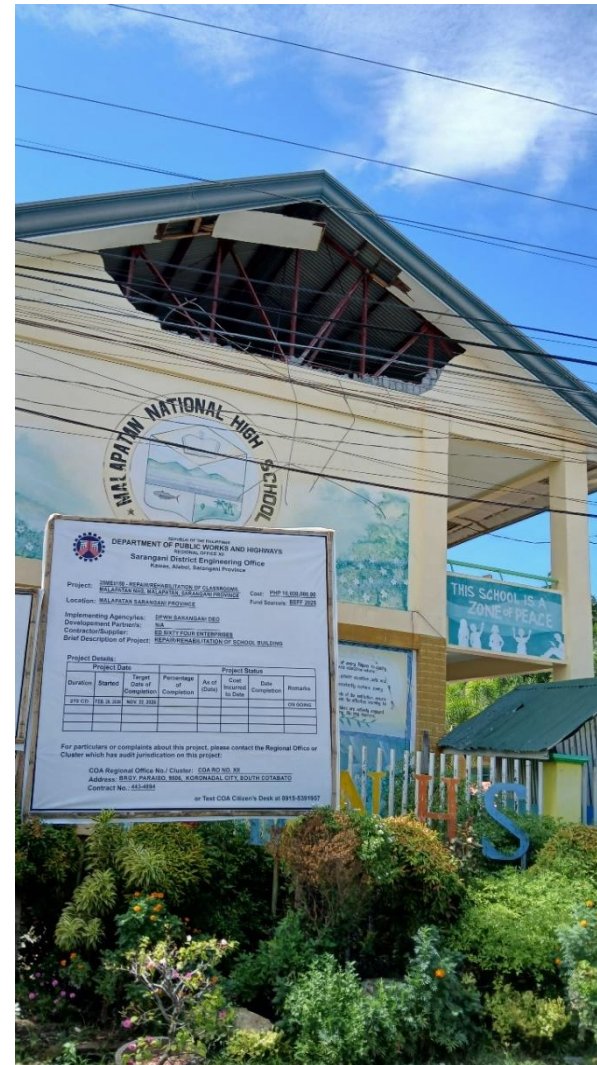
## *Notre Dame of Dadiangas University, General Santos City*



Photos taken on 11 June 2026

# DAMAGED INFRASTRUCTURE

## Malapitan National High School, Malapitan, Sarangani



Photos taken on 12 June 2026

# DAMAGED INFRASTRUCTURE

## *Sapu Masla Bridge, Brgy. Sapu Masla, Malapatan, Sarangani*



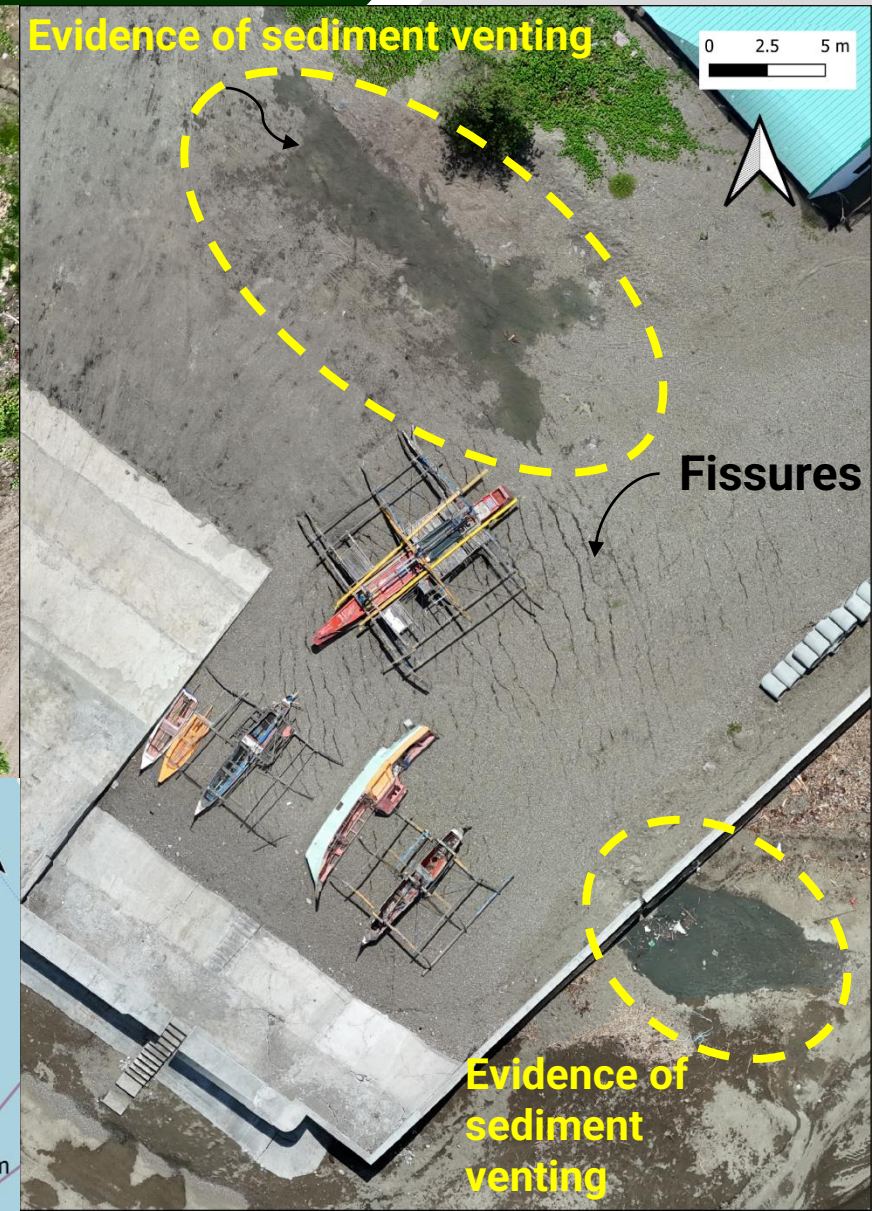
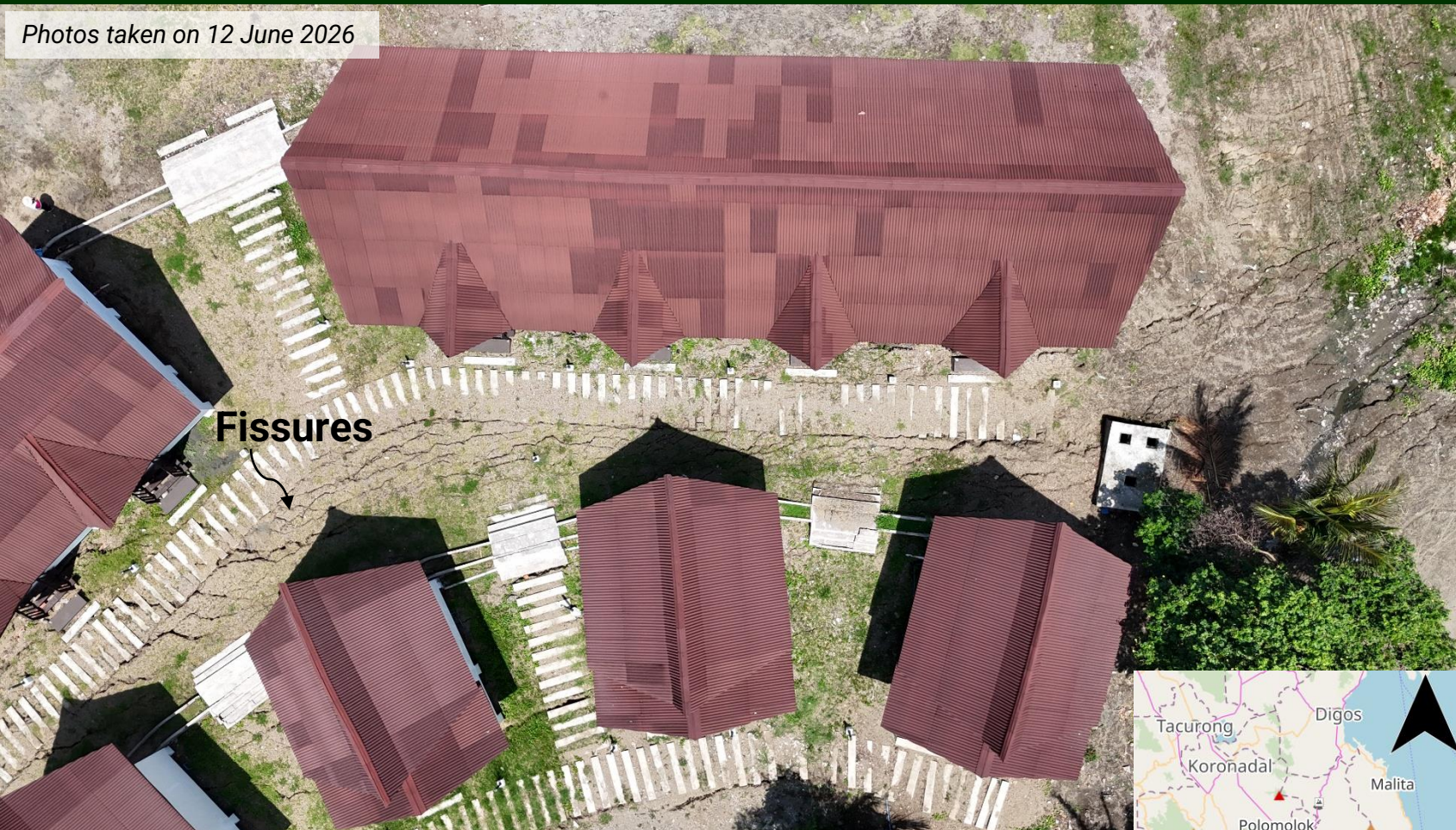
# DAMAGED INFRASTRUCTURE

**Damaged Sea wall in Ladol Beach, Alabel, Sarangani**

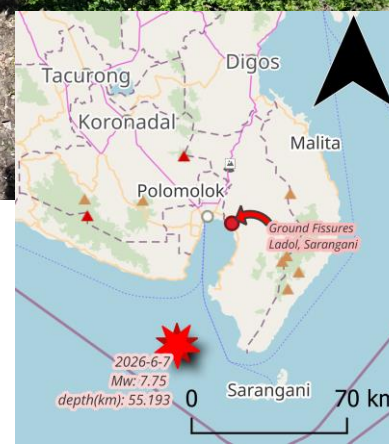


# DAMAGED INFRASTRUCTURE

Photos taken on 12 June 2026



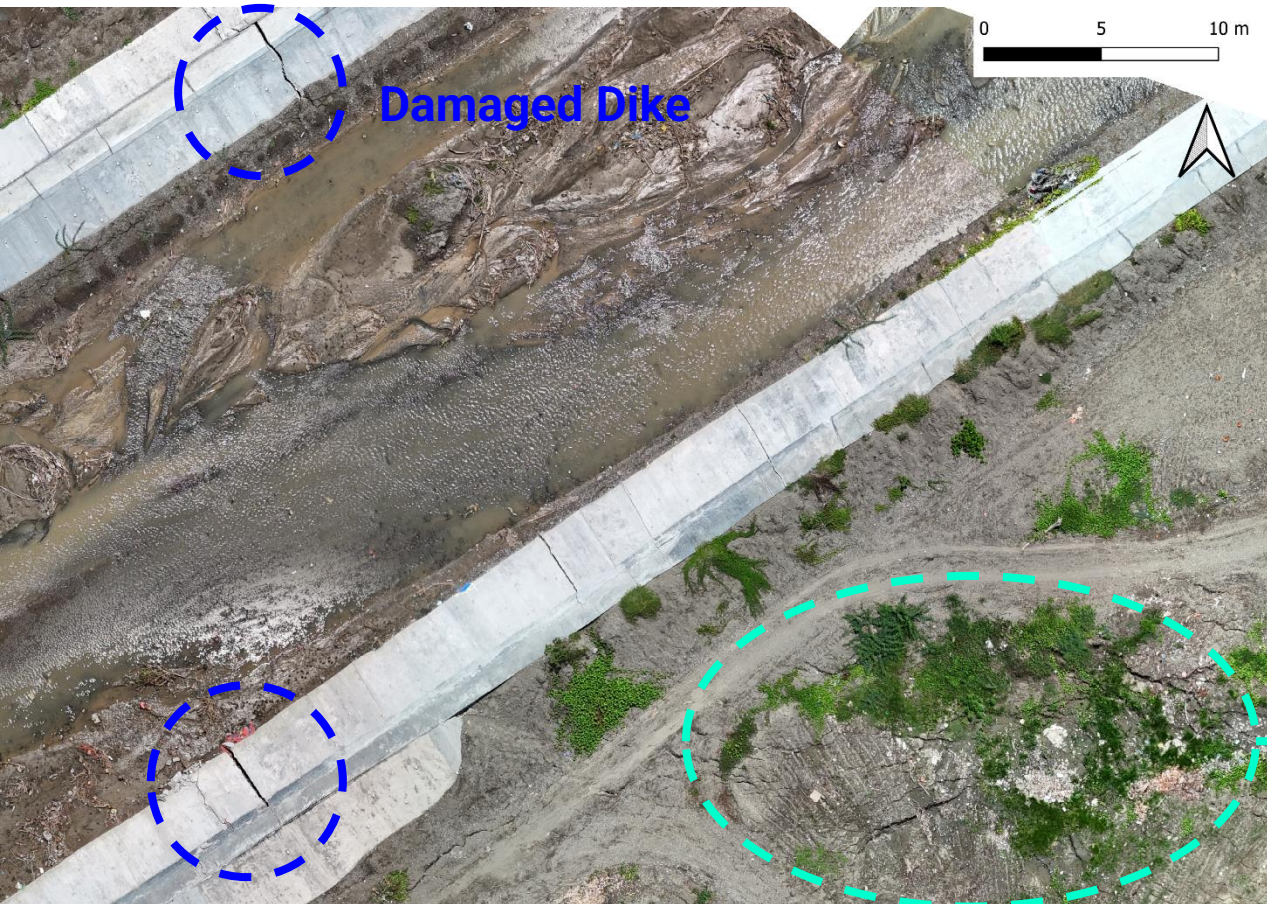
**Lateral Spreading in Ladol Beach, Alabel, Sarangani**



**Evidence of sediment venting**

# DAMAGED INFRASTRUCTURE

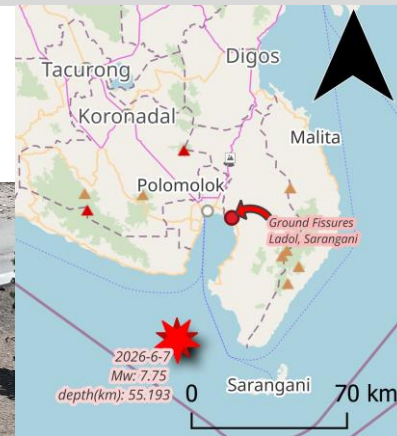
## *Lateral Spreading in Ladol Beach, Alabel, Sarangani*



**Damaged Dike**



**Fissures**



Photos taken on 12 June 2026

# DAMAGED INFRASTRUCTURE

## Access Road to Glan, Sarangani



Source: Municipal Vice Mayor of Glan, Sarangani

# DAMAGED HOUSES

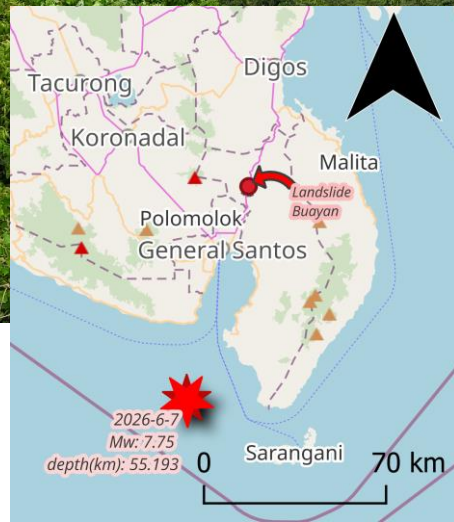
## *Lateral Spreading in Hicban Subd., Brgy. Lagao, GenSan City*



Photos taken on 11 June 2026

# EQ-TRIGGERED LANDSLIDES

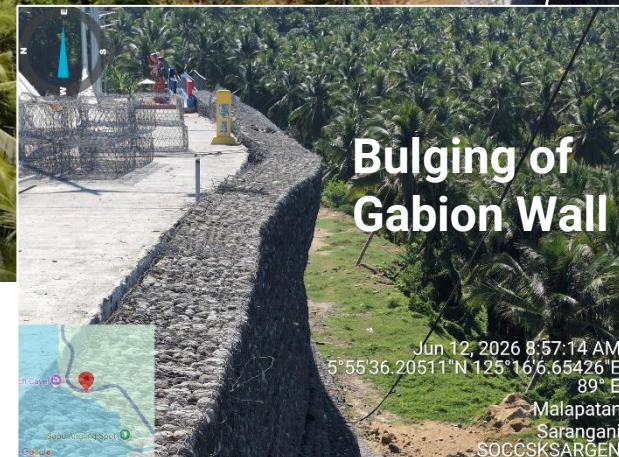
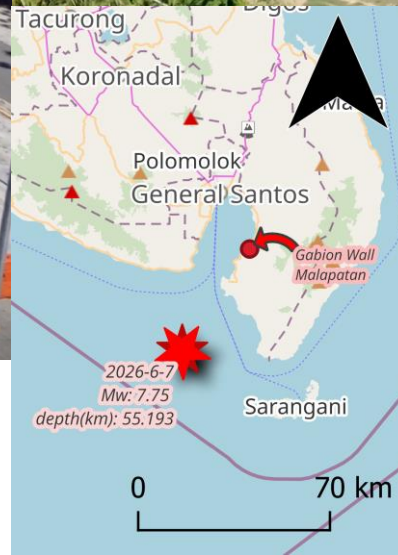
## Landslides along Davao-GenSan Highway



Photos taken on 12 June 2026

# EQ-TRIGGERED LANDSLIDES

## Landslide along Sarangani-Davao Coastal Road



**Bulging of Gabion Wall**

Jun 12, 2026 8:57:14 AM  
5° 55' 36.20511" N 125° 16' 6.65426" E  
89° E  
Malapatan  
Sarangani  
SOCCSKSARGEN

Photos taken on 12 June 2026

# TSUNAMI & COASTAL UPLIFT

## ***Reported tsunami heights (PHIVOLCS, June 8, 2026):***

- Kiamba, Sarangani = 1.48 m
- Kalamansig, Sultan Kudarat = 0.84 m
- Maasim, Sarangani = 0.48 m
- City of Zamboanga = 0.25 m
- City of Mati, Davao Oriental = 0.21 m
- City of Tandag, Surigao del Sur = 0.09 m

## ***Also reported in the following:***

- Sulawesi Island, Indonesia = 83 cm
- Palau, Davao = ~30 cm
- Ogasawara Islands, Okinawa, Japan = ~20 cm



**DOST-PHIVOLCS**  
PHILIPPINE INSTITUTE OF  
VOLCANOLOGY AND SEISMOLOGY  
DOST4All: Solutions and Opportunities for All

**UPDATE ON THE M7.8 OFFSHORE SARANGANI EARTHQUAKE**

landslides

landslides

Co-seismic Coastal Uplift

**Impacts of COASTAL UPLIFT**

**IN PHOTOS:**

Co-seismic coastal uplift and coastal landslides observed between Barangays Burias and Pangyan, Glan, Sarangani.

Formerly submerged corals are now exposed on a co-seismically raised modern reef platform along the coast of Brgy. Pangyan, Glan, Sarangani, following the 08 June 2026 M7.8 Offshore Sarangani Earthquake. Preliminary field observations indicate approximately 2 meters of coastal uplift and about 200 meters of shoreline retreat.

Date Published: 12 June 2026

[phivolcs.dost.gov.ph](https://phivolcs.dost.gov.ph) [/PHIVOLCS](https://www.facebook.com/PHIVOLCS) [@phivolcs\\_dost](https://twitter.com/phivolcs_dost) [DOST-PHIVOLCS](https://www.youtube.com/DOST-PHIVOLCS)

# **FINDINGS AND RECOMMENDATIONS**

# INITIAL FINDINGS

- **Design and Construction Practices:** Outdated structural design and detailing practices, poor enforcement leading to low compliance of existing building codes, non-engineered structures.
- **Structural Integrity:** Issues related structural integrity of buildings and infrastructure, and potential pre-seismic geotechnical/environmental factors.
- **Non-Structural Damage:**  
Majority of observed damage involves non-structural/non-load bearing components.

# INITIAL FINDINGS

- **Liquefaction Effects:**

Clear evidence of liquefaction-induced ground failure, including lateral spreading, differential settlement, and sediment venting. Many affected structures are located near river deltas and in areas identified by PHIVOLCS as susceptible to liquefaction.

- **Landslides and Slope Instability:**

Earthquake-triggered landslides impacted critical infrastructure (e.g., access roads and major highways). Ongoing slope instability, rockfalls, and material movement indicate continued landslide risk post-event.

# INITIAL RECOMMENDATIONS

- **Enhance seismic design:** Improve both structural and non-structural systems to increase overall building resilience.
- **Enforce compliance:** Enforcing pertinent codes and standards, together with appropriate QA/QC protocols.
- **Strengthen critical infrastructure:** Assess and retrofit essential lifeline infrastructure to ensure post-earthquake operability.
- **Advance geotechnical investigations:** Conduct detailed studies in areas exposed to geotechnical/geologic hazards.
- **Implement risk reduction measures:** Prioritize structural evaluations, slope stabilization, hazard monitoring, and integration of updated hazard data into planning and development.

# FURTHER WORKS

- **Further Investigation and Data Gathering**
  - To be presented in future gatherings and conferences
- **DRRM for Disaster Resilience**
- **PSSMGE: Institutionalize Disaster Quick Response Team**
- **Collaboration**
  - Strengthen cooperation with **ISSMGE GeoWB** on geotechnical hazard assessment and resilience strategies
  - Facilitate knowledge exchange, capacity building, and technical guidance
  - Support joint reconnaissance, studies and dissemination of lessons learned from recent earthquakes.

# POST-EQ QUICK RESPONSE TEAM

## Reconnaissance Team:

- Kate Trishia Papina
- John Alejandro Rivera
- Enrico Luis Abcede
- Kirsten Julia Cruz

## Home Office Support:

- John Michael Tanap
- Elaine Marie Peña
- Geraldine Frias



From left to right: Enrico Luis Abcede, Kate Trishia Papina, John Alejandro Rivera, Kirsten Julia Cruz

# A Meaningful 21<sup>ST</sup> ICSMGE...

## PSSMGE / Philippine Delegation:

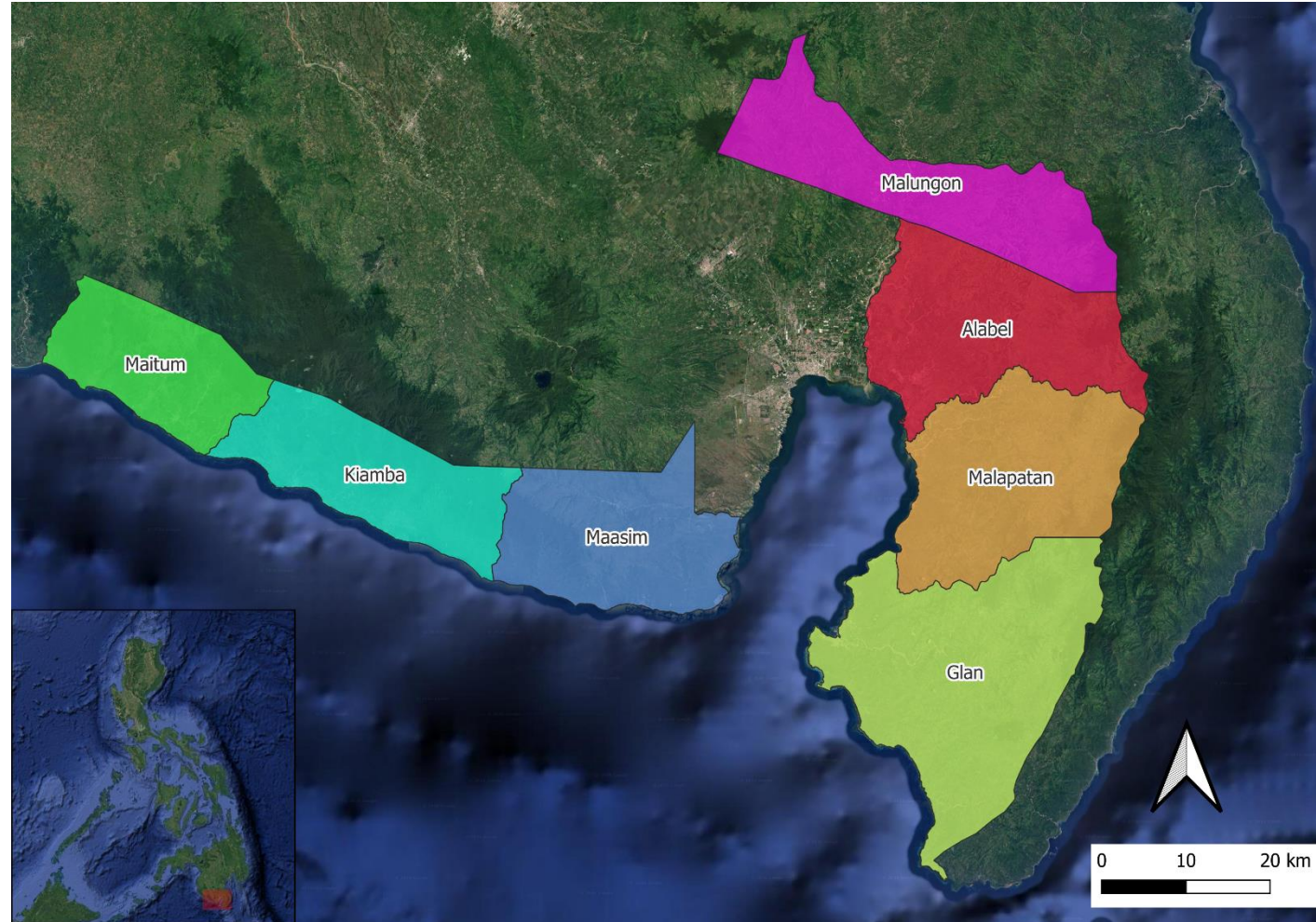
- Roy Luna
- Mark Zarco
- Eric Santos
- Mike Gargullo
- Gian Reyes
- Patrick Selda
- Francis Bernales
- Anjo Victor
- Travis Alcantara
- Rolly Orense



**THANK YOU.**

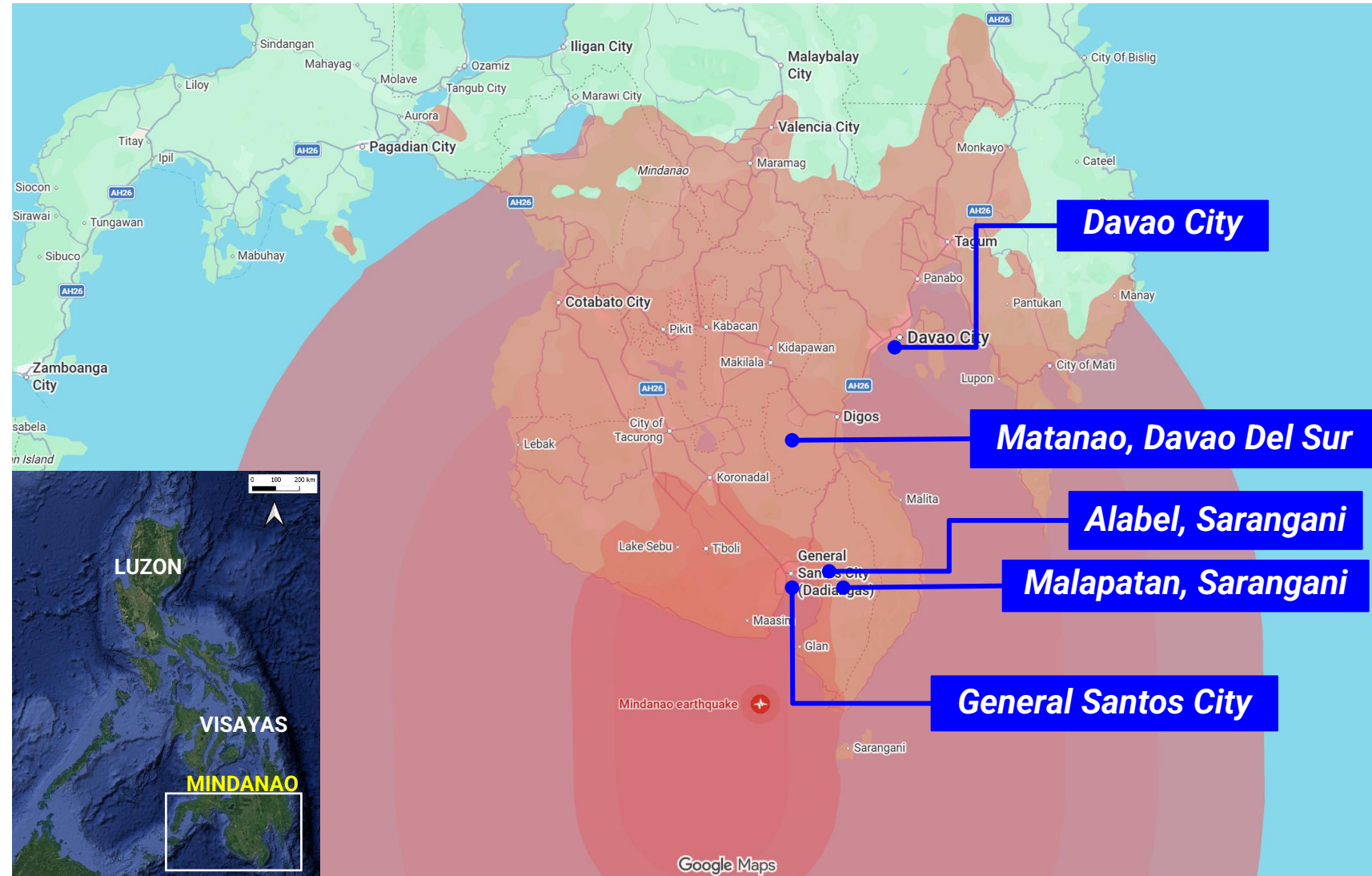
# SARANGANI PROVINCE

- Population: 580,915 (based on 2025 census)
- Number of Barangays: 141
- Total Area : 3,601.25 km<sup>2</sup>
- Terrain: Coastal plains, rolling hills, and rugged mountain ranges



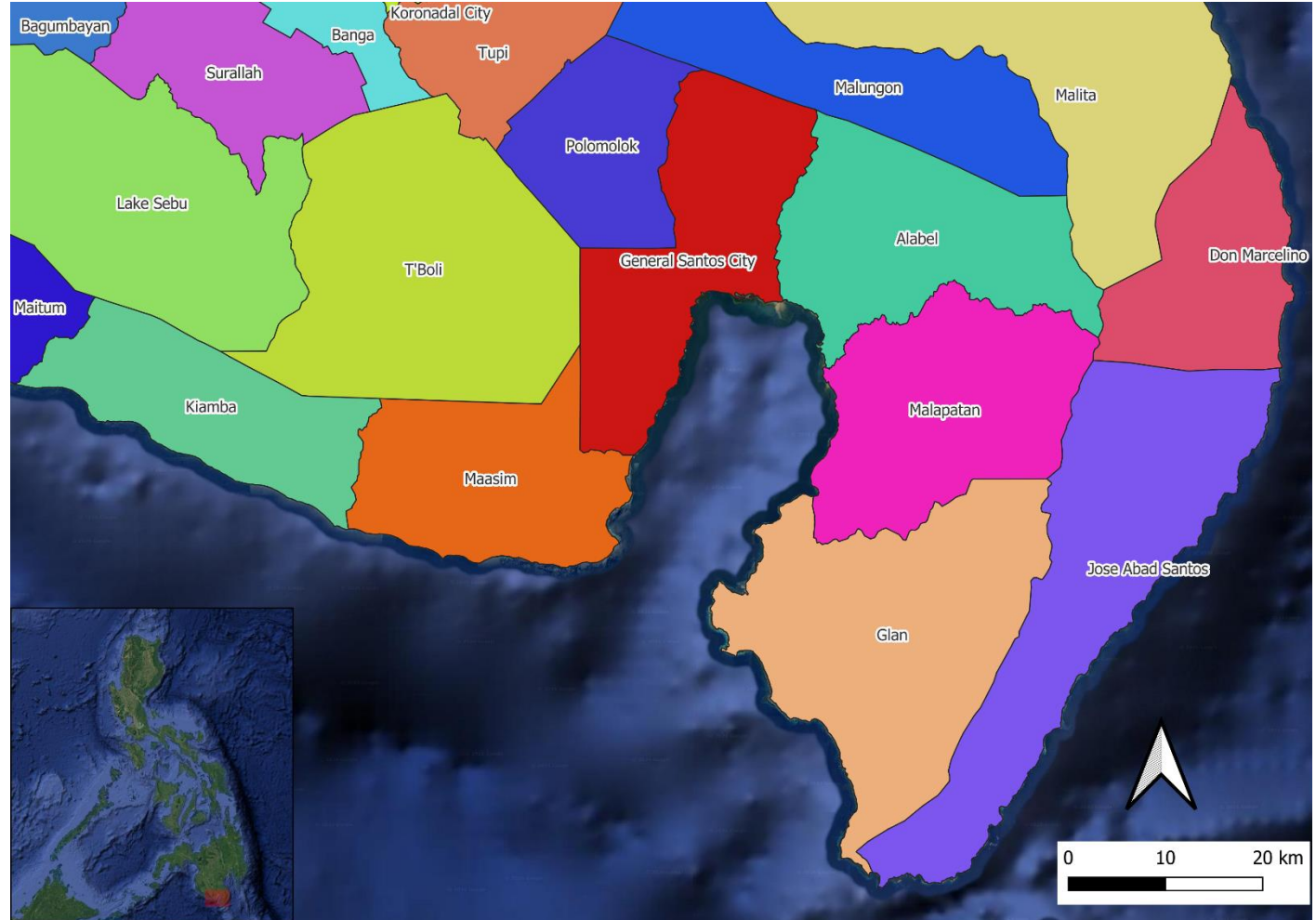
# AFFECTED AREAS

- Caused deaths, injuries, and the evacuation of thousands of residents.
- Damaged buildings, roads, schools, and other infrastructure.
- Triggered tsunami warnings and coastal evacuations.
- Disrupted power, water, transportation, and business activities.
- Led to landslides, ground deformation, and numerous aftershocks.



# GENERAL SANTOS (GENSAN) CITY

- Population: 722, 059 (based on 2025 census)
- Number of Barangays: 26
- Total Area : 492.86 km<sup>2</sup>
- Terrain: Coastal plains, rolling hills, and rugged mountain ranges
- Known as the “Tuna Capital of the Philippines”
- Hometown of boxing legend and former world champion Manny Pacquiao



# SITUATIONAL REPORT



REPUBLIC OF THE PHILIPPINES  
**NATIONAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL**  
 National Disaster Risk Reduction and Management Center, Camp Aguinaldo, Quezon City, Philippines

## Magnitude 7.8 Earthquake in Maasim, Sarangani (2026)

Situational Report No. 6 for the Effects of Magnitude 7.8 Earthquake in Maasim, Sarangani (2026)

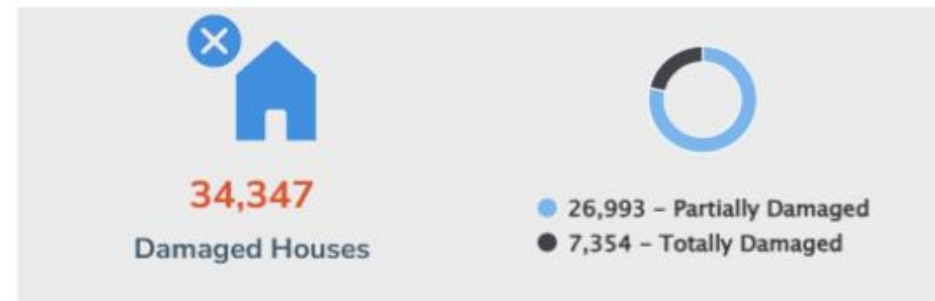
June 14, 2026 08:00 am

### CASUALTIES

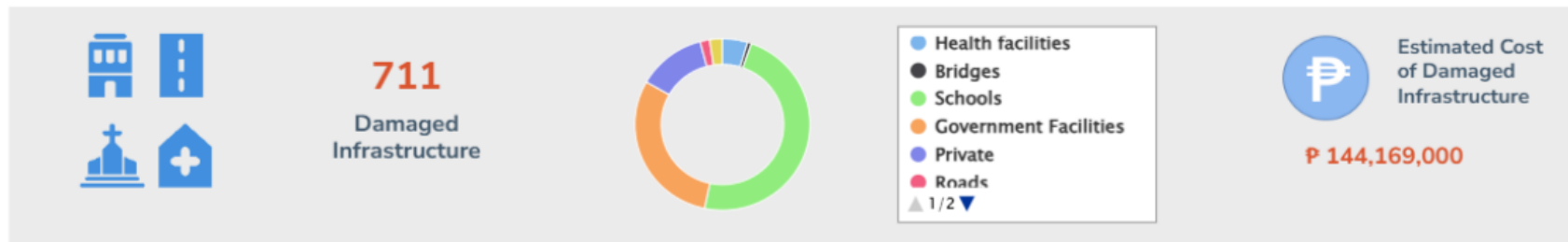
*\*This includes those that have been reported but are not yet reflected in the NDRRMC SitRep.*



### DAMAGED HOUSES



### DAMAGE TO INFRASTRUCTURE



# EQ UPDATES FROM LGU

## General Santos City

### EARTHQUAKE UPDATE



AS OF

JUNE 14, 2026 | 8:00 AM

MISSING

1

DEATH

22

INJURED  
(NOT ADMITTED)

439

INJURED  
(ADMITTED)

67

HOUSES AFFECTED

22,696

PARTIALLY DAMAGED

2,672

TOTALLY DAMAGED

FAMILIES AFFECTED

25,323

LGU INTERVENTIONS

RELIEF  
OPERATIONS

SEARCH, RESCUE AND  
RETRIEVAL  
OPERATIONS

MEDICAL AND  
PSYCHOSOCIAL  
ASSISTANCE

DAMAGE ASSESSMENT  
AND RECOVERY  
PLANNING

WHOLE-OF-  
COMMUNITY  
RESPONSE

WHOLE-OF-  
GOVERNMENT  
RESPONSE

## Sarangani Province

### SARANGANI EARTHQUAKE UPDATE

AS OF JUNE 14, 2026 | 6:00 PM

AFFECTED INDIVIDUALS

251

INJURED

15

MISSING

33

CONFIRMED DEATHS

AFFECTED FAMILIES

57,843

FAMILIES IN EVACUATION  
CENTERS

428

DAMAGED HOMES

17,854

PARTIALLY DAMAGED

5,565

TOTALLY DAMAGED

GOVERNMENT INTERVENTIONS

RELIEF  
DISTRIBUTION

SEARCH, RESCUE, AND  
RETRIEVAL OPERATIONS

EMERGENCY SHELTER  
ASSISTANCE

MEDICAL AND  
PSYCHOSOCIAL  
SUPPORT

DAMAGE  
ASSESSMENT AND  
RECOVERY PLANNING

**SARANGANI STANDS TOGETHER**  
EVERY LIFE MATTERS. EVERY FAMILY MATTERS.

SOURCE: PDRRC CONSOLIDATED REPORT



Sarangani Ronda Probinsya | Sarangani Provincial Information Office | Gov. Rogelio "Ruel" D. Pacquiao - Sarangani Province

@piosarangani



www.sarangani.gov.ph