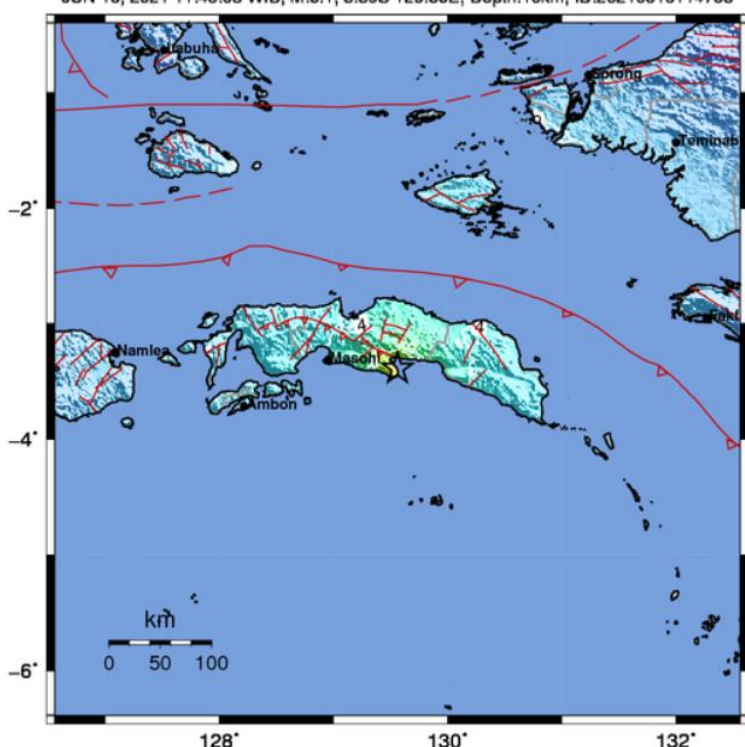


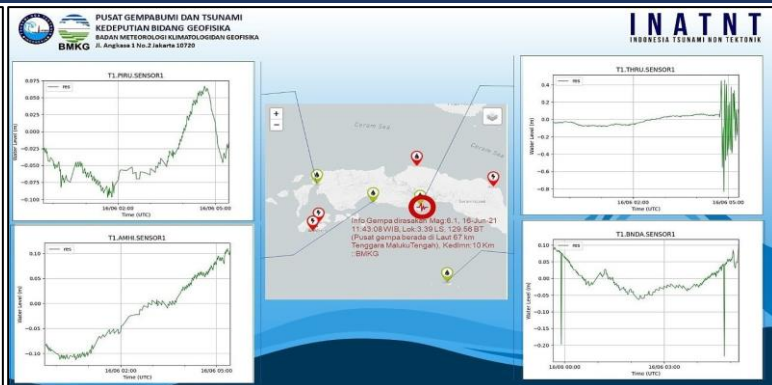
M 6.1 EARTHQUAKE IN CENTRAL MALUKU, INDONESIA FLASH UPDATE #1

BMKG ShakeMap : 67 km Tenggara MALUKUTENGAH
JUN 16, 2021 11:43:08 WIB, M:6.1, 3.39S 129.56E, Depth:10km, ID:20210616114755



PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	none	none	none	Very light	Light	Moderate	Mod./Heavy	Heavy	Very heavy
MMI	I	II-III	IV	V	VI	VII	VIII	IX	X+

Scale based upon Worden et al. (2011)



EXPOSURE

Disclosure(s) The information and data contained in this product are for reference only. Pacific Disaster Center (PDC) does not guarantee the accuracy of these data. Refer to original sources for any legal restrictions.

315,813

ESTIMATED POPULATION EXPOSED

70,180

ESTIMATED HOUSEHOLDS EXPOSED

\$1.55 Billion

ESTIMATED REPLACEMENT VALUE OF BUILDINGS AND INFRASTRUCTURE



DEMOGRAPHIC BREAKDOWN

1

COUNTRIES POTENTIALLY AFFECTED



24%

76,522
CHILDREN
AGE 0-14



68%

216,286
ADULTS
AGE 15-64



7%

23,005
ELDERLY
AGE 65+



URBAN POPULATION
105,741



RURAL POPULATION
210,072



25%
387 MILLION
RESIDENTIAL



33.3%
517 MILLION
SERVICE



21.9%
341 MILLION
INDUSTRIAL



19.8%
306 MILLION
SCHOOLS



0.1%
550,401
HOSPITALS

Indonesia

- At 11:43 AM (GMT+7) of 16 June 2021, a **M6.1** tectonic earthquake with epicentre at 129.56E, 3.39S and a depth of 10km (located 67 km southeast Central Maluku) rocked Central Maluku. (source: [BMKG](#))
- Considering the location of the epicentres of the foreshock and aftershocks and the depth of the hypocentre, the earthquakes that occurred are results of the activity of the local fault. Analysis shows that the earthquakes have a normal fault mechanism according to Badan Meteorologi, Klimatologi dan Geofisika ([BMKG](#))
- According to [BMKG](#), the shock of this earthquake was felt in Tehoru, Masohi, Bula, Kairatu, Saparua, and Wahai **III MMI** (Vibration felt in the house as if a truck was passing by) and Ambon **II-III MMI** (Vibration felt by a few persons at rest, especially on upper floors of buildings. Hanged light object on the roof is swinging).
- [BMKG](#) monitoring results showed that there were sixteen (16) **aftershocks** with a maximum magnitude of **M3.7** as of 16 June 2021 at 2:35 PM (GMT+7).
- According to [BMKG](#), modeling results show that this earthquake DOES NOT have a TSUNAMI POTENTIAL, but based on the results of sea level observations by the BMKG TEHORU station, it shows that there is a sea level rise of 0.5 m that may caused by an underwater avalanche.
- Further, [BMKG](#) has released a warning for **aftershocks and POTENTIAL TSUNAMI** that may be caused by an underwater landslide. People in Japutih - Apiahu Beach in Seram Island, Maluku Tengah Regency are advised to move away from the beach and go to higher places.
- According to the ASEAN Disaster Monitoring and Response System ([DMRS](#)) and Pacific Disaster Center ([PDC Global](#)), this is very shallow (shallower quakes generally tend to be more damaging than deeper quakes). Based on the preliminary data, earthquakes of this depth and magnitude are expected to result in moderate to severe shaking within 80.0 km (49.71 miles) from the epicenter. It is estimated that **144,333 people, 32,074 households, and \$729 Million (USD)** of infrastructure (*total replacement cost*) are concentrated within this radius.
- Badan Nasional Penanggulangan Bencana ([BNPB](#)) is monitoring the impacts of the M6.1 earthquake in the affected regencies/cities such as Central Maluku Regency, Eastern Seram Regency, Western Seram Regency and Ambon City.
- The AHA Centre will continue to monitor for further developments and issue necessary updates.

DATA SOURCES

ASEAN Disaster Monitoring & Response System (DMRS); Pacific Disaster Center (PDC Global)

Indonesia: BNPB, BMKG, BPBD

Verified news media agencies

DISCLAIMER

The AHA Centre was established in November 2011 by the Association of Southeast Asian Nations (ASEAN) Member States to facilitate cooperation and coordination among the Member States, relevant agencies of the United Nations, and international organisations in disaster management and humanitarian assistance.

The use of boundaries, geographic names, related information and potential considerations for response are for reference, not warranted to be error free or implying official endorsement from ASEAN Member States.

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