

MAIPARK - IMPACT

Statistical Report on Catastrophic Event

KUPANG EARTHQUAKE - 2 November 2023

EARTHQUAKE DETAILS

General Information

Seismic Source Zone:
Banda Arc Subduction Zone
Date of Event:
2 November 2023
04:04:45 Local Time



Magnitude
6.6 M

Depth
10 km

Epicenter
10.3°S; 123.76°E
<https://www.bmkg.go.id/gempabumi/gempabumi-dirasakan.bmkg>



Magnitude
6.1 M_w

Depth
36.1 km

Epicenter
10.012°S 123.728°E
<https://earthquake.usgs.gov/earthquakes/eventpage/us7000l851/executive>

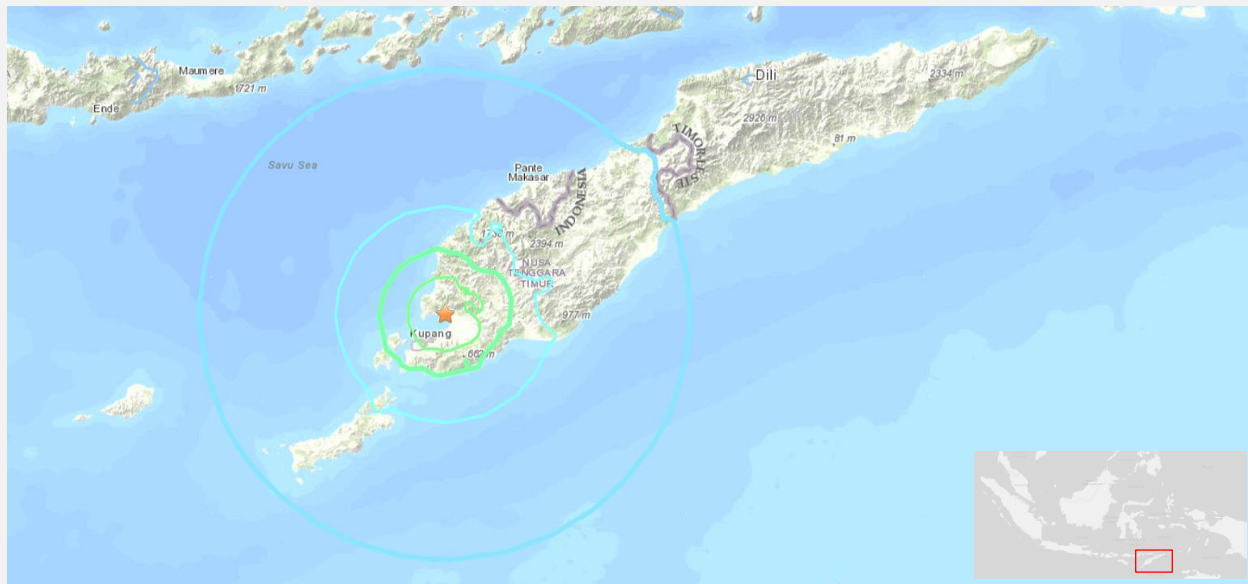


Magnitude
6.0 M_w

Depth
32 km

Epicenter
9.96°S 123.64°E
<https://geofon.gfz-potsdam.de/old/eqinfo/event.php?id=gfz2023vlaq>

AFFECTED CITIES as reported by USGS (accessed at <http://earthquake.usgs.gov> - latest update on 2 November 2023 at 04:04 AM Jakarta local time)



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On November 2, 2023 at 04:04:45 local time, there was a 6.1 M_w Earthquake (USGS) which was triggered by the movement of the Plate Tectonics with the epicenter in Kupang Regency, Nusa Tenggara Timur, 20 Km northeast of Kupang City. The earthquake had a depth of 36.1 km below sea level and the epicenter of the earthquake occurred in the area of Banda Arc Subduction which MAIPARK has delineated in the 2023 risk zone map. Based on beach ball analysis, the earthquake occurred with a normal movement mechanism (normal fault), meaning that it has no possibility to cause Tsunami.

As SENA assessment per November 2, 2023 there was total 824 number of insured risk with IDR 2.85 T total insured exposure affected by the event within Kupang Regency and Kupang City with intensity on VI and V MMI respectively from at least 50 ceding companies (exposure data used is ceded data as ceding's cession to MAIPARK that on-risk at date of loss)

Based on MAIPARK Catastrophe Modeling, the estimated loss for the ceded risks is minor which in the range of 8 - 42 million rupiah from 2 risks affected. (exposure data used was on risk as at November 2, 2023 at 9.24). Based on the data, the occupancy of those 2 risks are Commercial.

Further information can be accessed at sena.maipark.com

ACCUMULATION SUMMARY - INDONESIA EQ INSURANCE on-risk as at 2 November 2023

Earthquake intensity (MMI) simulated using MAIPARK Cat Model (MCM) ver. 3.0.

Intensity (MMI)	II	III	IV	V	VI	VII	VIII	IX+
Perceived Shaking	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
Potential Damage	Resistant Structure	None	None	Very Light	Light	Moderate	Moderate/Heavy	Very Heavy
	Vulnerable Structure	None	None	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
Number of Risk	~	~	221	717	107	~	~	~
Total Exposure (billion IDR)	~	~	208.06	2,166.28	688.30	~	~	~

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Annex 1 - Affected Portfolio per Occupation

Intensity Scale MMI	City / Kabupaten	Number of Risk	Premium (million IDR)	Exposure per Occupation (billion IDR)				
				Agriculture	Commercial	Industrial	Residential	Total
VI	KAB. KUPANG	107	1,022.10	0.00	197.19	410.21	80.90	688.30
V	KOTA KUPANG	717	4,117.81	0.00	1,524.12	190.49	451.67	2,166.28
IV	KAB. ROTE NDAO	49	100.20	0.00	68.52	0.00	2.16	70.67
	KAB. TIMOR TENGAH SELATAN	94	113.21	0.00	83.78	0.00	7.09	90.87
	KAB. TIMOR TENGAH UTARA	78	39.15	0.00	22.10	0.00	24.43	46.53
TOTAL		1,045	5,392.47	0.00	1,895.70	600.71	566.24	3,062.65

Annex 2 - Affected Portfolio per Interest

Intensity Scale MMI	City / Kabupaten	Number of Risk	Exposure per Interest (billion IDR)					Total
			Building	Machinery	Stock	Others	BI	
VI	KAB. KUPANG	107	451.98	69.46	35.91	103.96	27.00	688.30
V	KOTA KUPANG	717	1,303.46	198.15	224.75	263.72	176.19	2,166.28
IV	KAB. ROTE NDAO	49	49.66	0.00	9.28	11.73	0.00	70.67
	KAB. TIMOR TENGAH SELATAN	94	36.28	2.35	1.57	50.66	0.00	90.87
	KAB. TIMOR TENGAH UTARA	78	37.68	0.77	2.22	5.86	0.00	46.53
TOTAL		1,045	1,879.06	270.73	273.73	435.93	203.19	3,062.65

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