PRELIMINARY SATELLITE- DERIVED DAMAGE ASSESSMENT INDONESIA EARTHQUAKE (21 November 2022, M 5.6)

Cianjur District, Jawa Barat Province, Indonesia

Status: Potentially damaged structures observed.

Further action(s): continue monitoring

23 November 2022
EARTHQUAKE M 5.6 IN PHILIPPINES ON 21 NOVEMBER 2022

Legend
- City/Town
- District boundary
- Province boundary

Intensity (EC-JRC)
- I
- VII
- X+

Map location
- ∼300,000
- ∼640,000
- ∼1,500,000
- ∼2,600,000
- ∼3,800,000
AOI 1-1 KARANGTENGAH SUB DISTRICT, CIANJUR DISTRICT, JAWA BARAT PROVINCE

Potentially damaged structure

Worldview-2 / 27 November 2021

Pleiades / 23 November 2022
AOI 1-2 SUKALUYU SUB-DISTRICT, CIANJUR DISTRICT, JAWA BARAT PROVINCE

Landslide and potentially affected structures

Worldview-2 / 27 November 2021

Pleiades / 23 November 2022
AOI 1-3 CIANJUR AND CILAKU SUB-DISTRICTS, CIANJUR DISTRICT, JAWA BARAT PROVINCE

Mudslide and potentially affected structures

Worldview-2 / 27 November 2021

Pleiades / 23 November 2022
AOI 1-4 CIANJUR AND CILAKU SUB-DISTRICTS, CIANJUR DISTRICT, JAWA BARAT PROVINCE

Mudslide and potentially affected structures

Worldview-2 / 27 November 2021

Pleiades / 23 November 2022
AOI 1-5 CIANJUR TOWN, CIANJUR SUB-DISTRICTS, CIANJUR DISTRICT, JAWA BARAT PROVINCE

Mudslide and potentially affected structures

Worldview-2 / 5 Sep 2020

Pleiades / 23 November 2022
SUMMARY OF FINDINGS

- Based on seismic intensities (USGS) and population data (worldpop), about 1 million people were exposed to strong and very strong shaking in Jawa Barat Province, Indonesia;

- Potentially damaged structures and temporary shelters observed in Karangtengah & Sukaluyu Sub Districts, Cianjur District, Jawa Barat Province as of 23 November 2022;

- Landslide observed in Sukaluyu Sub-district, Cianjur District, Jawa Barat Province as of 23 November 2022;

- Landslides affected structures observed in Cianjur and Cilaku Sub-districts, Jawa Barat Province as of 23 November 2022.
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Data sources:

(1) Satellite Image (Post-event)

Pleiades / 23 November 2022
Copyright: CNES (2022), distribution Airbus Defense and Space
Source: Airbus Defense and Space

(2) Satellite Image (Pre-event)

Worldview-2 / 5 Sep 2020 and 27 November 2021
Copyright: 2020 Digital Globe and 2021 Digital Globe
Source: ESRI Basemap

(3) Ancillary data

MMI intensities: EC-JRC
Administrative boundaries: Badan Pusat Statistik (BPS - Statistics Indonesia), HDX
Populated places: OpenStreetMap
Analysis: United Nations Satellite Centre (UNOSAT)
Production: United Nations Satellite Centre (UNOSAT)