



6 November 2023

PRELIMINARY SATELLITE-DERIVED DAMAGE ASSESSMENT JAJARKOT EARTHQUAKES (3 Nov 2023, M 5.7)

Musikot & Sani Bheri Municipalities of Rukum West District and Nalagad Municipality of Jajarkot District, Karnali Province, Nepal

- Status: Damaged structures observed
- Ξ Further action(s): Full assessment to be conducted



NEPAL 6 Nov. 2023 AL . AL















M 5.7 JAJARKOT EARTHQUAKES, NEPAL OF 3 NOVEMBER 2023 (18:02 UTC)

Nepal





AOI 1 – 1: Musikot Town, Musikot Municipality, Rukum West District, Karnali Province

Image center: 82°27'19"E 28°37'47"N





Potentially damaged structure



Worldview-3 / 27 October 2023

Pléiades / 5 November 2023

AOI 1 – 2: Musikot Town, Musikot Municipality, Rukum West District, Karnali Province

Image center: 82°28'43"E 28°36'41"N





Damaged structure



Worldview-3 / 27 October 2023

Pléiades / 5 November 2023

AOI 1 – 3: Sani Bheri Municipality, Rukum West District, Karnali Province

Image center: 82°21'11"E 28°39'27"N





Damaged structure



Worldview-3 / 3 November 2021

Pléiades / 5 November 2023

AOI 1 – 5: Nalagad Municipality, Jajarkot District, Karnali Province

Image center: 82°17'7"E 28°46'3"N





Landslides



Worldview-3 / 3 November 2021

Pléiades / 6 November 2023



- Based on seismic intensities MMI (USGS) [Last information as of 2023-11-05 at 01:42 UTC] and population data (Worldpop), about 200,000 people were exposed to strong to very strong shaking mainly in Karnali Province;
- Damaged structures observed up to 37km from the mainshock epicentre in Musikot town, Musikot Municipality, Rukum West District, Karnali Province as of 5 November 2023;
- Potentially damaged structures observed up to 37km from the maishock epicentre in Aathbiskot Municipality, Rukum West District, Karnali Province as of 5 November 2023;
- Landslides observed 13km SE of the mainschock epicentre in Nalagad Municipality, Jajarkot District, Karnali Province as of 6 November 2023.

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Data sources:

(1) Satellite Image (Post-event): Pléiades
Acquisition date : 5 & 6 November 2023
Resolution: 50cm
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Source: Airbus D&S

(2) Satellite Image (Pre-event): ESRI Basemap

(3) Ancillary data

Administrative boundaries: Survey Department of Nepal (http://ngiip.gov.np/index.php), UN Resident Coordinators Office in Nepal (https://un.org.np/) Populated place: OpenStreetMap Population data : WorldPop / Unconstrained individual countries 2020 UN adjusted Road data: OpenStreetMap

Analysis: United Nations Satellite Centre (UNOSAT) Production: United Nations Satellite Centre (UNOSAT)

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