

7 February 2023



PRELIMINARY SATELLITE-DERIVED DAMAGE ASSESSMENT MARASH / ANTEP EARTHQUAKE (6 February 2022, Mw 7.8)



Latakia city, Syrian Arab Republic

تقرير أولي عن الأضرار في اللاذقية من صور الأقمار الصناعية

زلزال 6 فبراير 2022 ، شدة 7.8

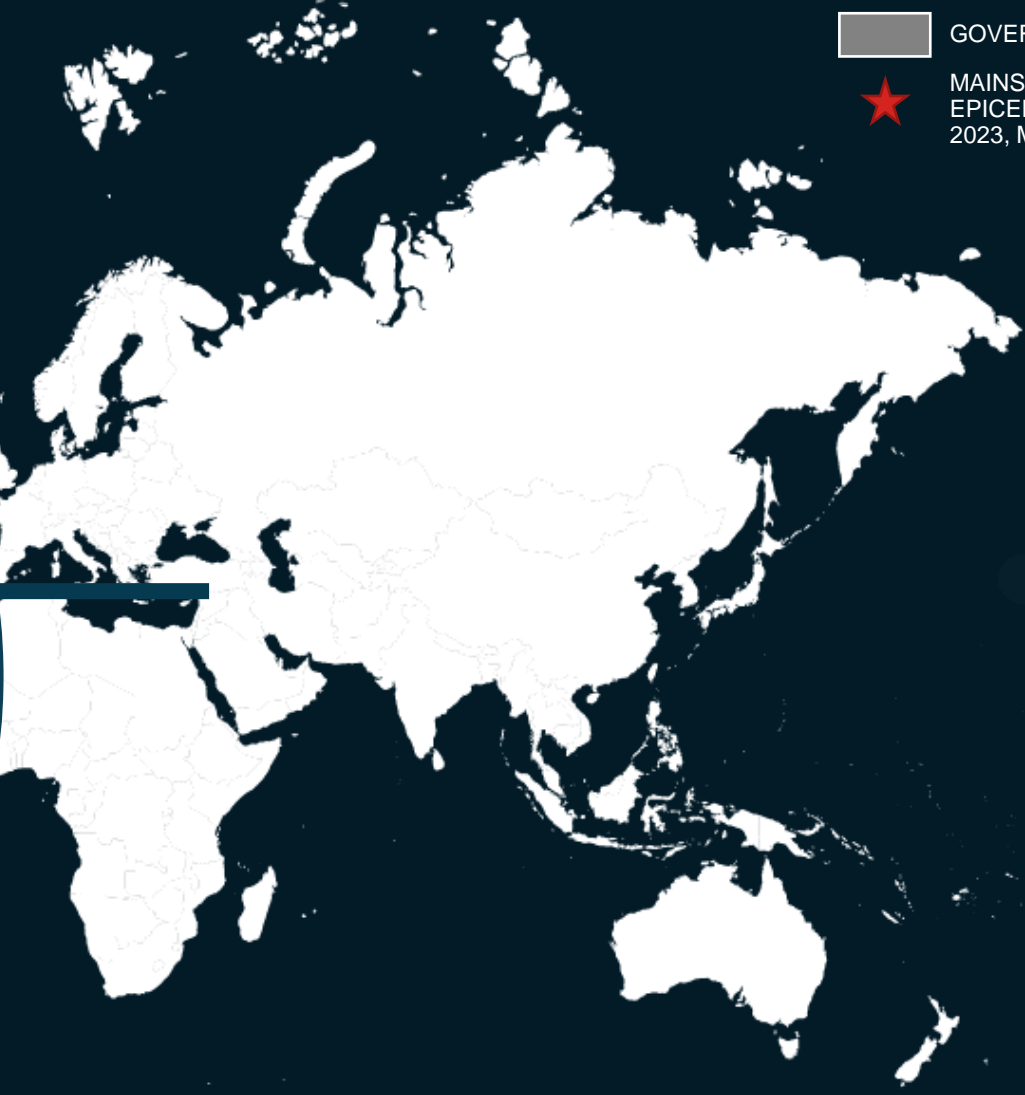
مدينة اللاذقية، الجمهورية العربية السورية


 Status: Destroyed and damaged structures observed.

 Further action(s): full assessment to be conducted



SYRIA

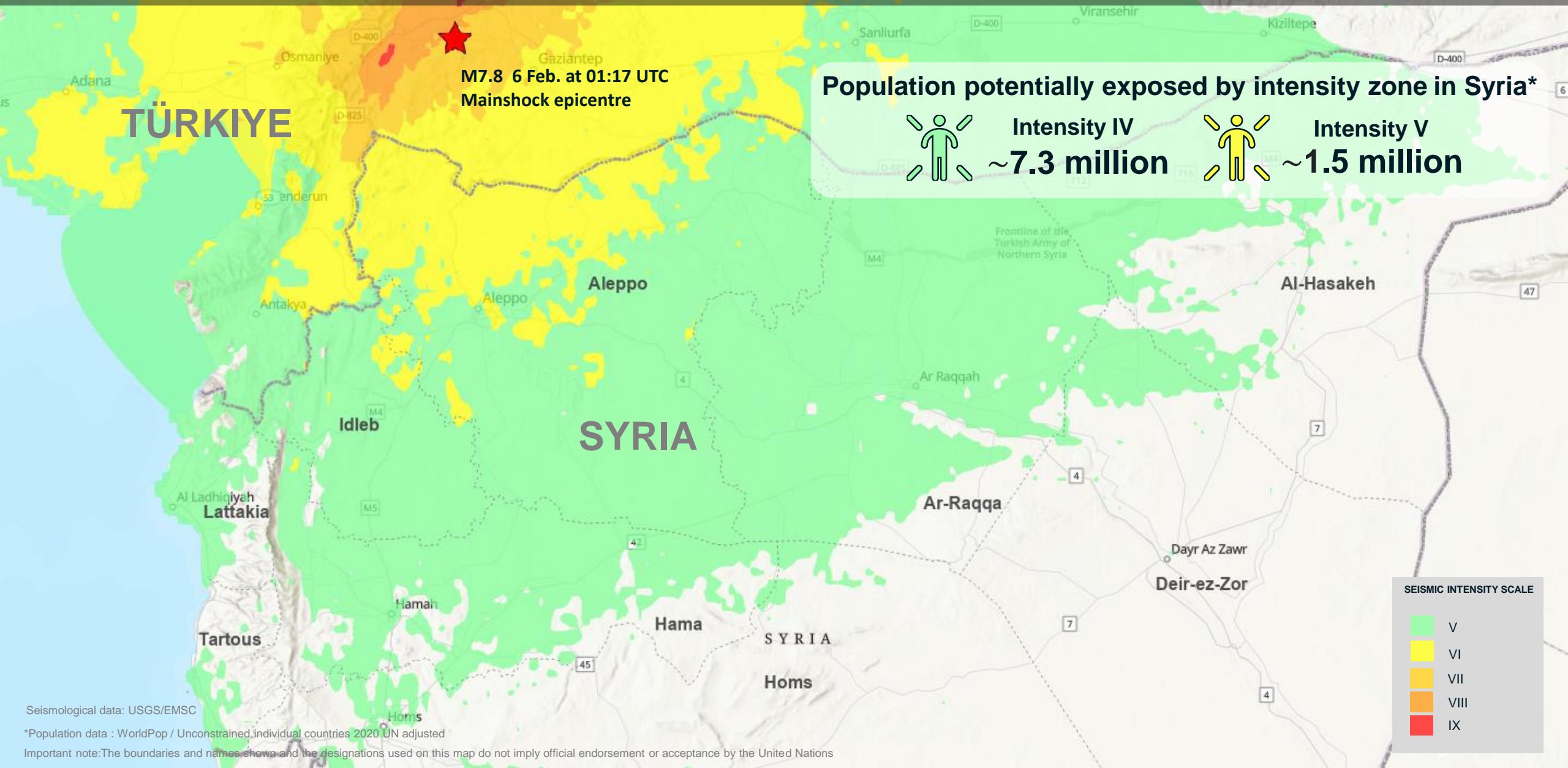


 AREA OF INTEREST (AOI)

 GOVERNORATE

 MAINSHOCK EARTHQUAKE
EPICENTRE (6 February
2023, Mw7.8)

MARASH/ANTEP EARTHQUAKE [6 FEBRUARY 2023, M 7.8]



M7.8 6 Feb. at 01:17 UTC
Mainshock epicentre

Population potentially exposed by intensity zone in Syria*

	Intensity IV		Intensity V
	~7.3 million		~1.5 million

SEISMIC INTENSITY SCALE

V
VI
VII
VIII
IX

Seismological data: USGS/EMSC
 *Population data : WorldPop / Unconstrained individual countries 2020 UN adjusted
 Important note: The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations

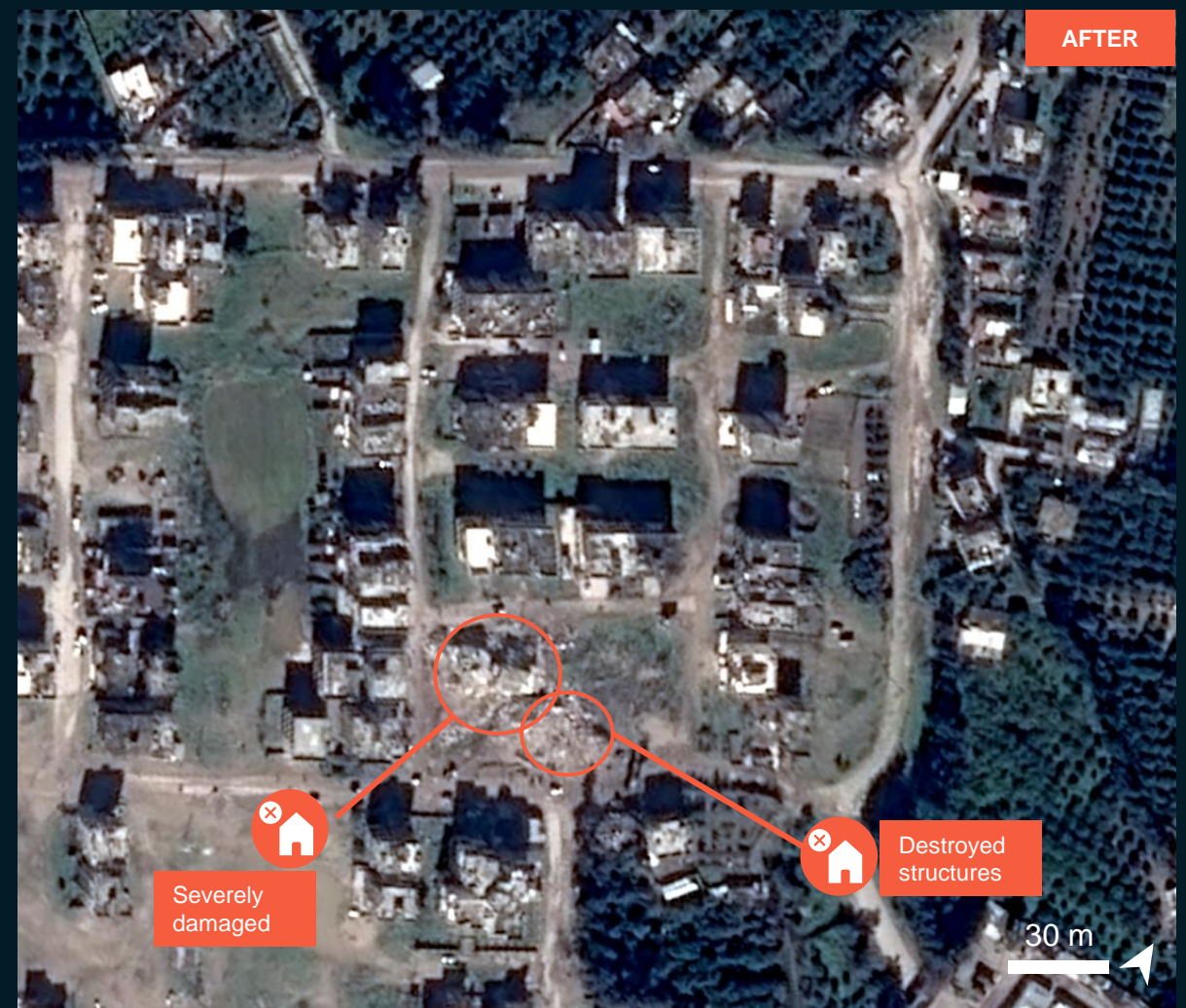
Latakia, East of Raml Al janoubi

Destroyed/severely damaged structures observed

Image center:
35°49'1"E
35°30'26"N



Google Earth / 11 Sep. 2021



Pléiades/ 7 Feb. 2023

Latakia, West of Raml Al janoubi

Potentially damaged structures observed

Image center:
35°47'19"E
35°31'20"N



Google Earth / 30 Jun. 2021

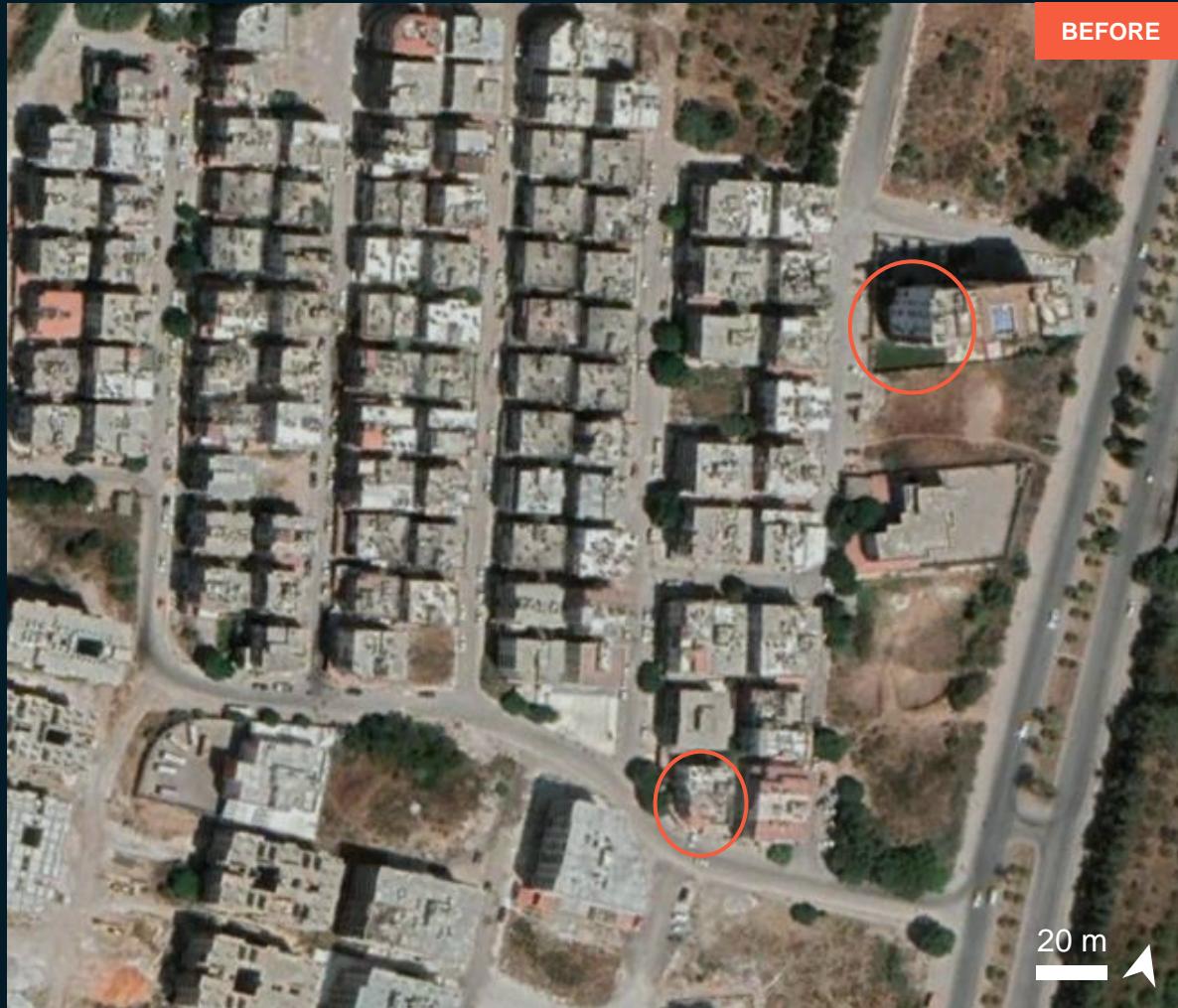


Pléiades/ 7 Feb. 2023

Latakia, Dam sarkho, Latakia North

Damaged structure observed

Image center:
35°46'41"E
35°32'48"N



BEFORE



AFTER

 Damaged structures

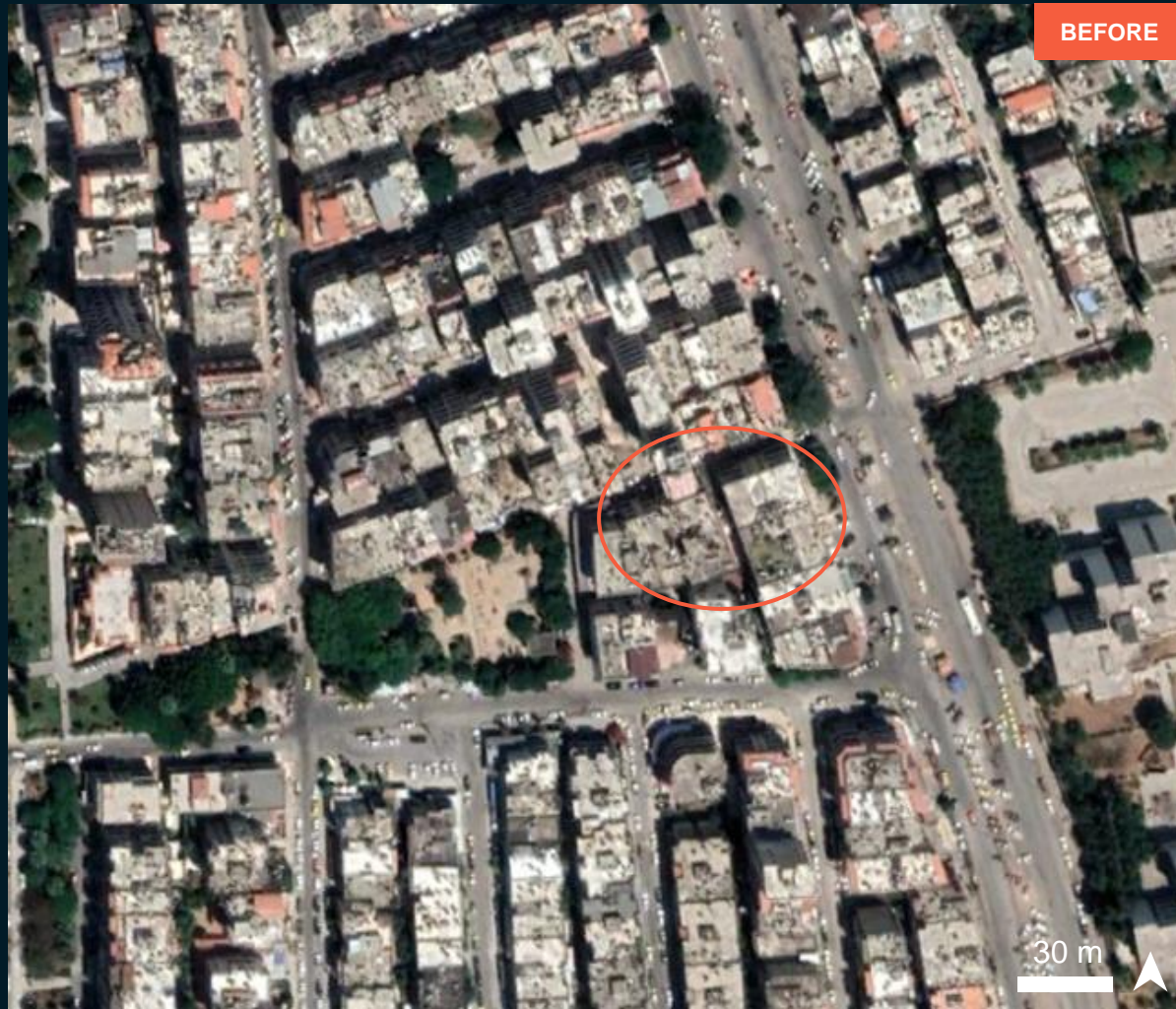
Google Earth / 19 Jul. 2021

Pléiades/ 7 Feb. 2023

Latakia, Tishreen University hospital sector

Potentially damaged structures observed

Image center:
35°47'57"E
35°31'20"N



Google Earth / 30 Jun. 2021

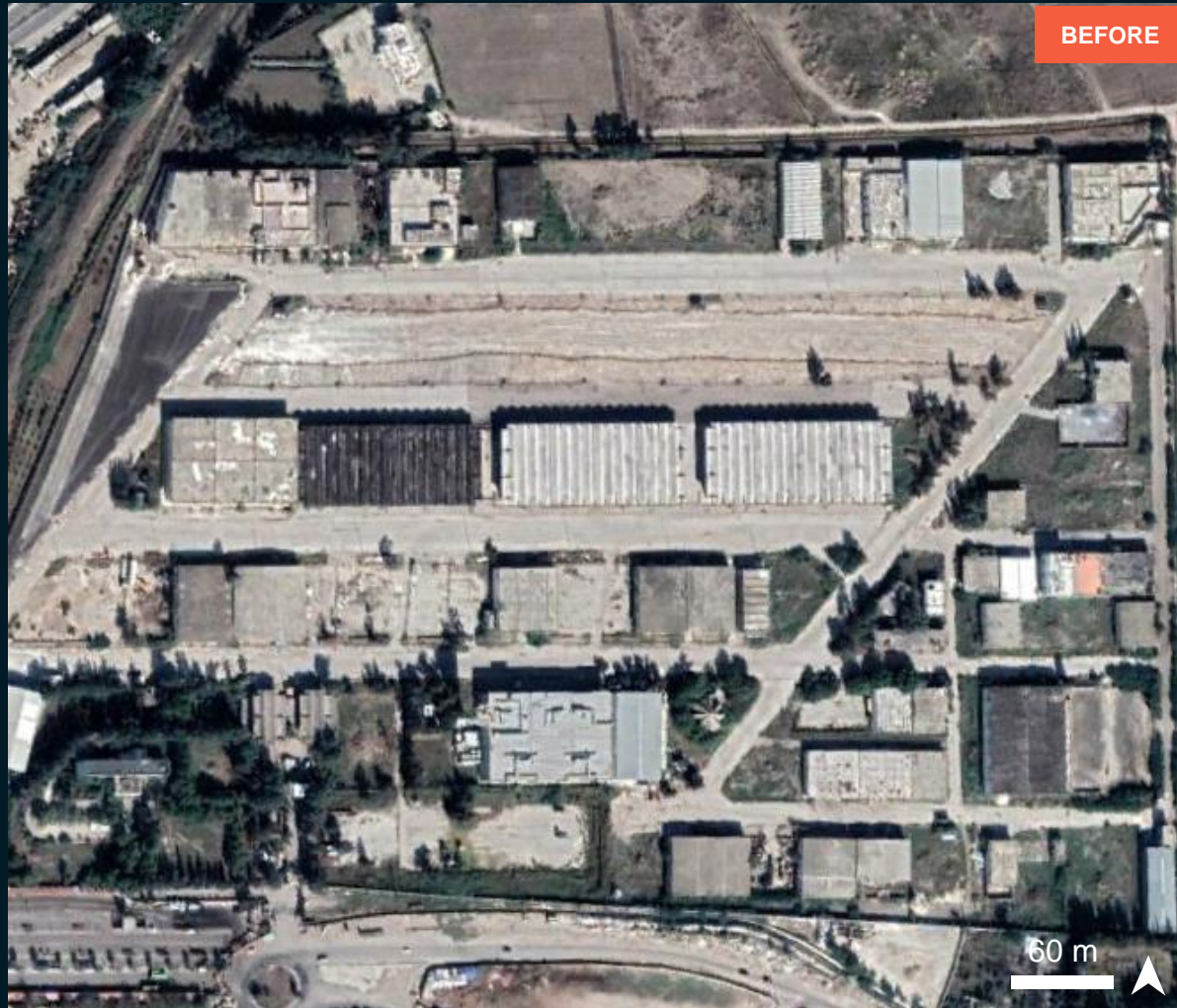


Pléiades/ 7 Feb. 2023

Latakia, Free zones sector

Damaged structures observed

Image center:
35°31'41"N
35°49'54"E



BEFORE

Google Earth / 11 Dec. 2021



AFTER

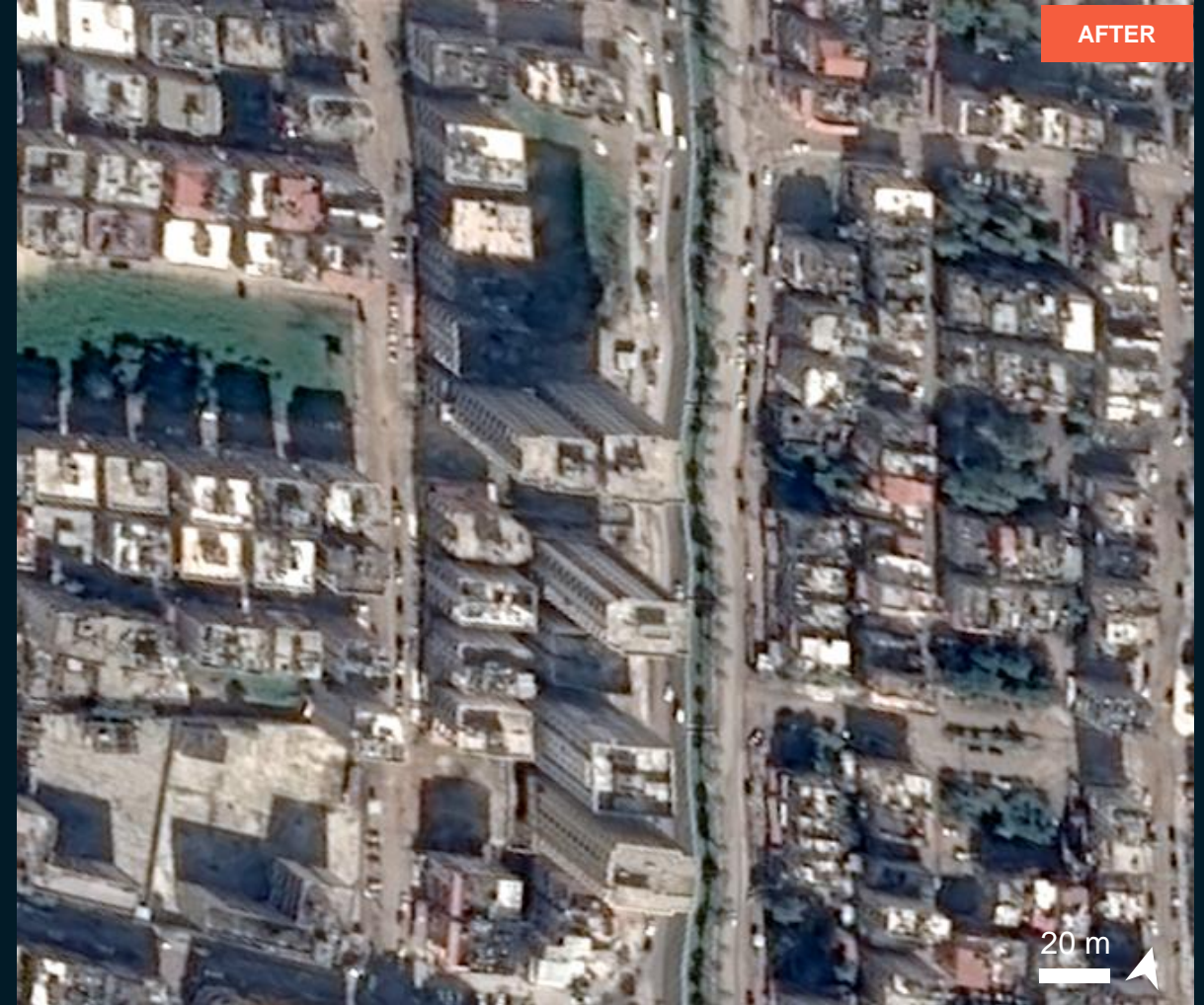
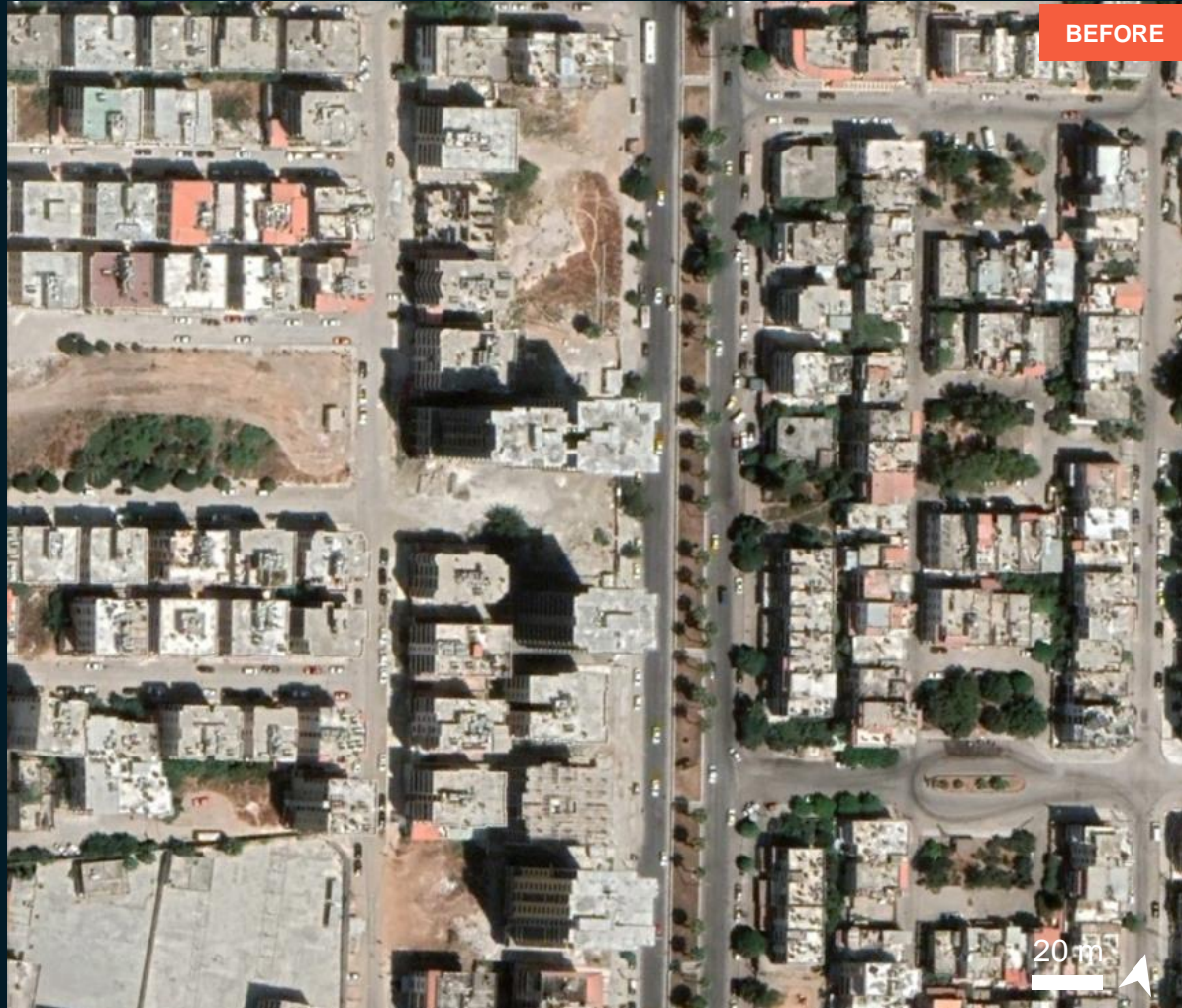
Potentially Damaged structures

Pléiades/ 7 Feb. 2023

Latakia city, Raml Al shamali

No visible damage

Image center:
35°32'24.2"N
35°46'50.4"E



Google Earth / 30 Jun. 2021

Pléiades / 7 Feb. 2023

SUMMARY OF FINDINGS

- Scattered damage to buildings observed in some sectors of the city of Latakia;
- Destroyed structures observed east of Raml Al Janubi, Latakia South, as of 7 February 2023;
- Damaged structure observed in Dam sarkho, Latakia North, as of 7 February 2023;
- No visible damage in Raml Al Shamali sector as of 07 February 2023;
- Potentially damaged structure observed in Latakia, Tishreen University hospital sector as of 7 February 2023.

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Data sources:

(1) Satellite Images (Post-event)

Satellite Data : Pleiades
Imagery Date : 7 February 2023
Resolution : 50 cm
Copyright : CNES (2023), distribution Airbus D&S
Source : Airbus DS

(2) Satellite Images (Pre-event)

Satellite Data : KOMPSAT-3
Imagery Date : 22 June 2022
Resolution : 70 cm
Copyright : KARI
Source : KARI

Google Earth

(3) Ancillary data

Earthquake epicentre: USGS
Seismic intensity scales : USGS
Main aftershock epicentre : EMSC

Administrative boundaries: United Nations Cartographic Section (UNCS) and United Nations Office for the Coordination of Humanitarian Affairs (UNOCHA), HDX

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

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UNOSAT, United Nations Institute for Training
and Research (UNITAR)
7 bis, Avenue de la Paix, CH-1202 Geneva 2,
Switzerland

T +41 22 917 4720
E unosat@unitar.org
www.unosat.org