




12 September 2023

Preliminary Night-time Light Loss Assessment Following the Adassil/AI Haouz Earthquake (8 September 2023, M6.8) in Marrakech-Safi Region



Morocco

 Status: Power outage areas observed.

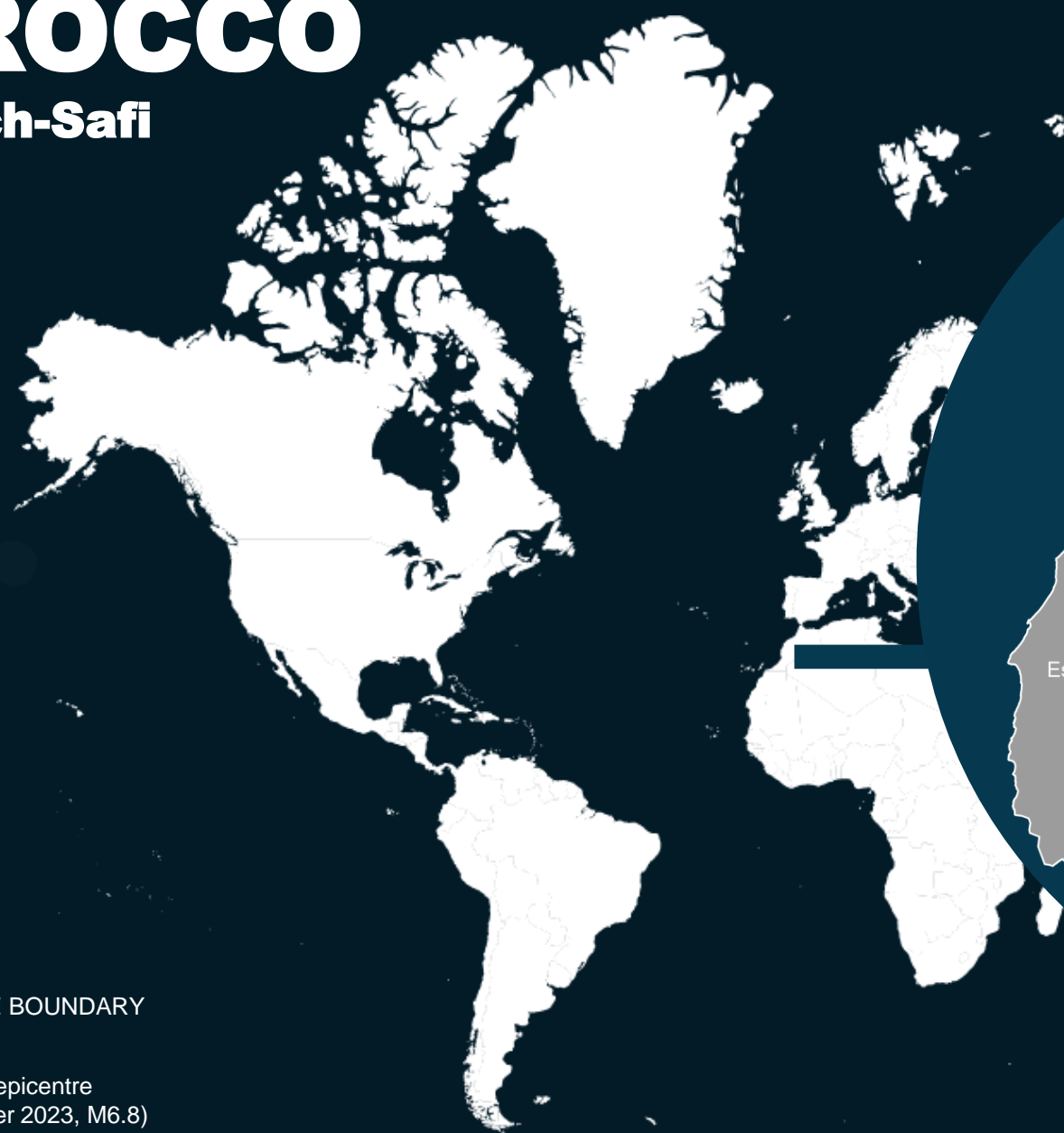
 Further action(s): continue monitoring

China•GEO




MOROCCO

Marrakech-Safi



 PROVINCE BOUNDARY

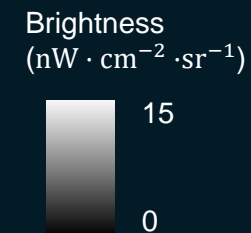
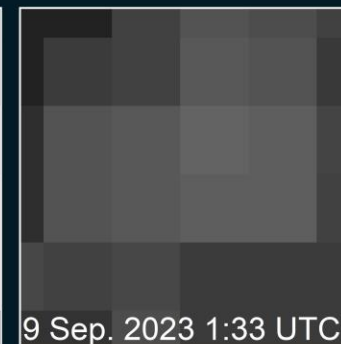
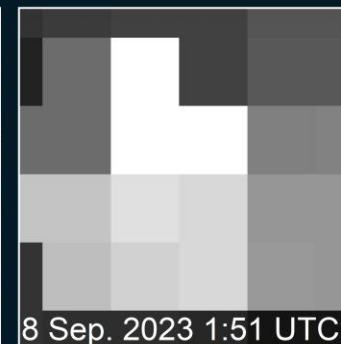
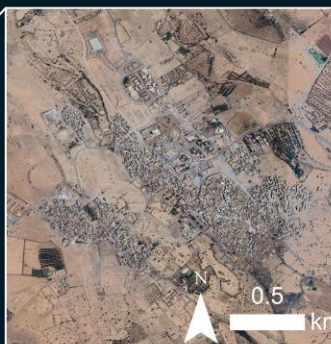
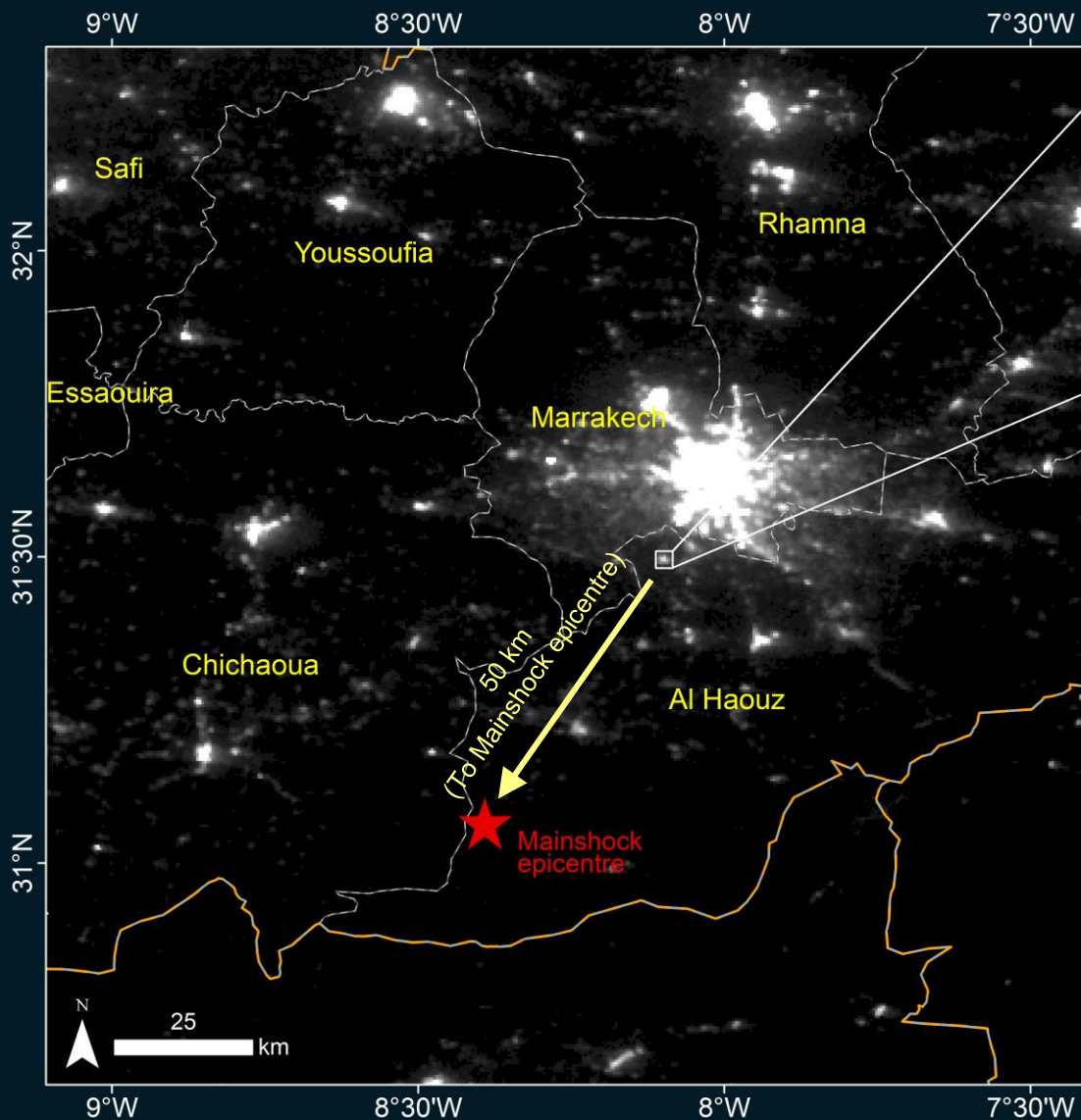
 Mainshock epicentre
(8 september 2023, M6.8)

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Night-time Light Assessment in Tameslohte Village, Al Haouz Province, Marrakech-Safi Region.

Significant power outage was observed in Tameslohte (20 km SW Marrakech) on the first day after the earthquake. Power supply in the area has restored to pre-earthquake level on 10 September.

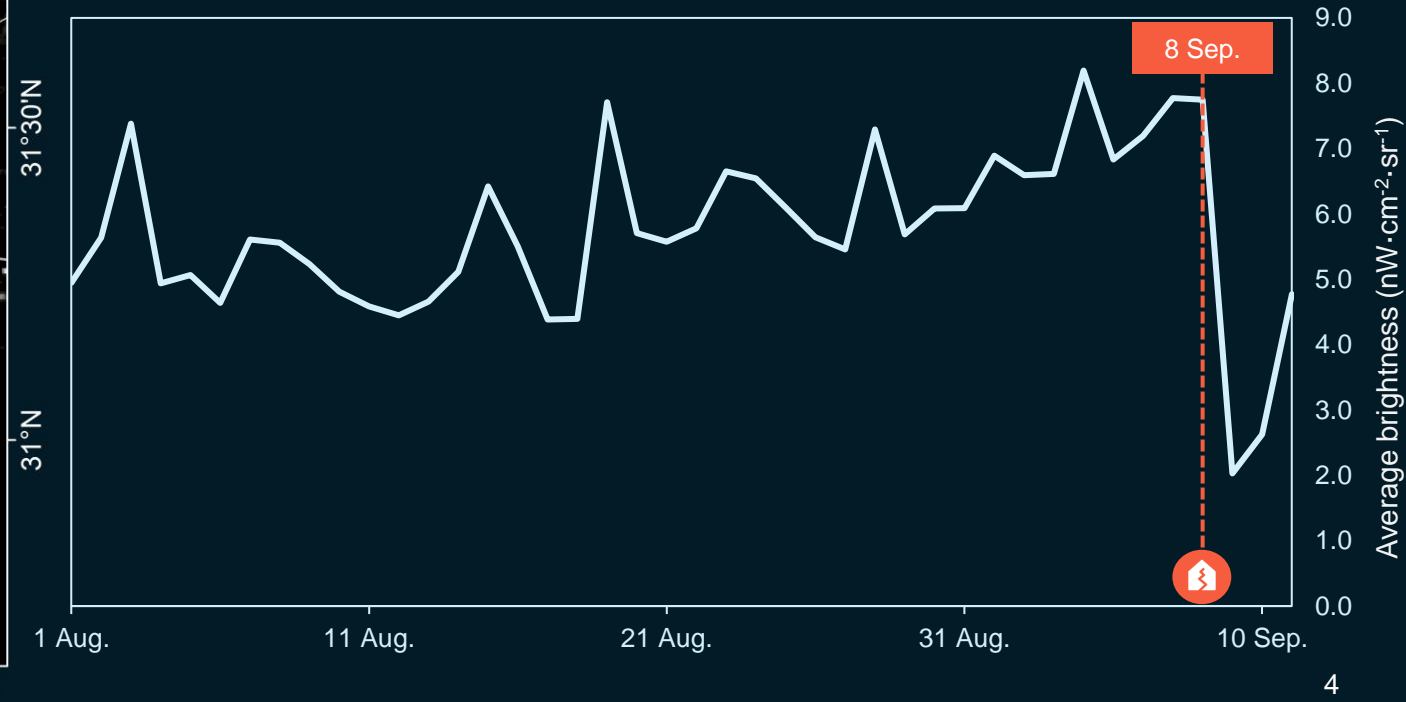
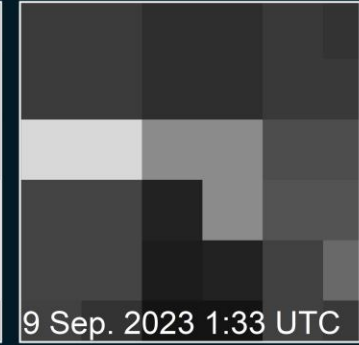
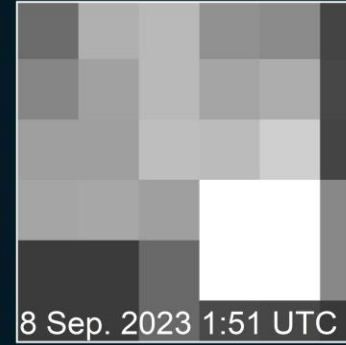
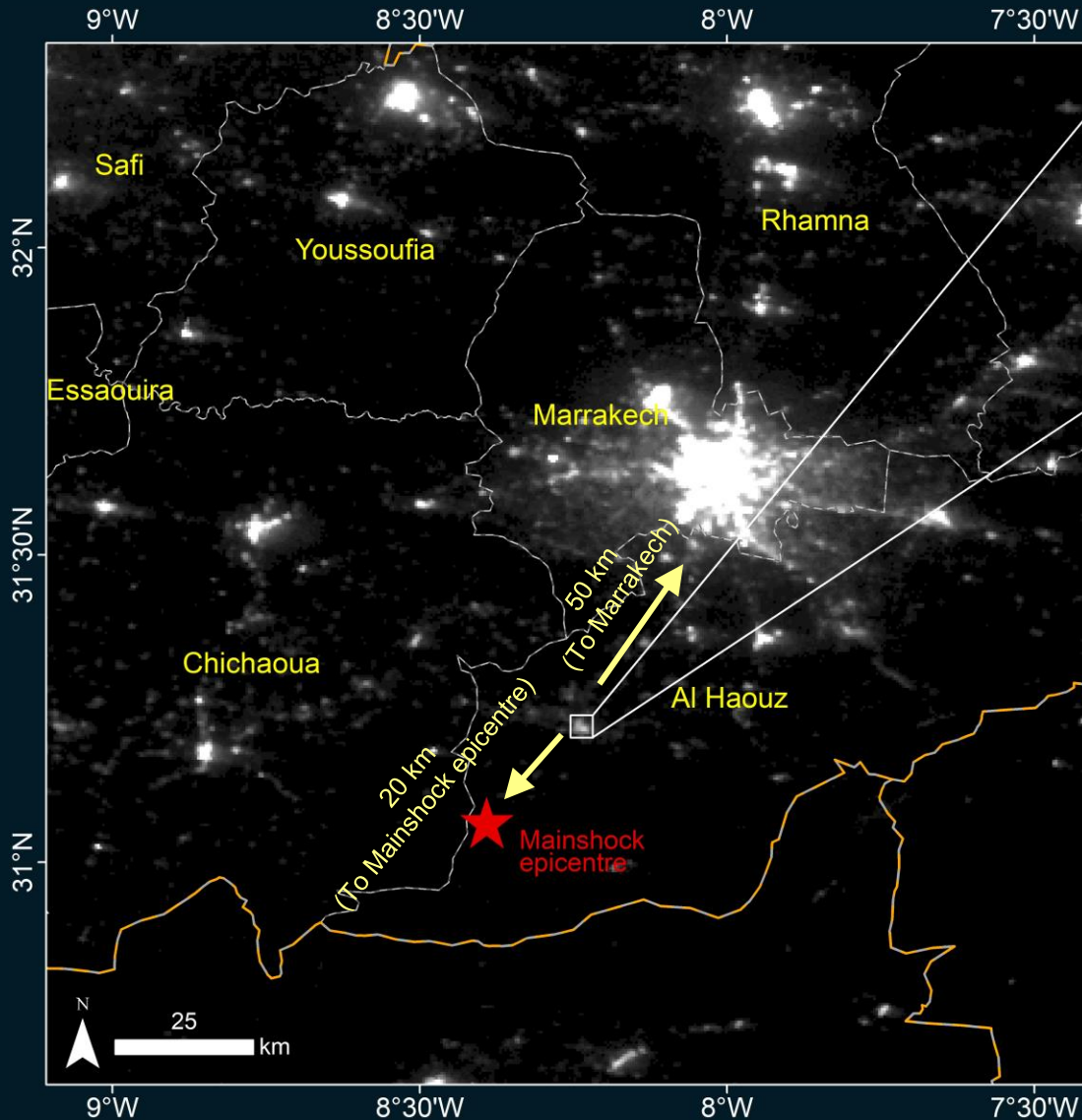
Image center:
31°29'07"N
08°15'37"W



Night-time Light Assessment in Amizmiz Village, Al Haouz Province, Marrakech-Safi Region, Morocco

Significant power outage was observed in Amizmiz (50 km SW Marrakesh) on the first day after the earthquake. Power supply in the area is in recovering but not yet at the pre-earthquake level.

Image center:
31°29'07"N
08°15'37"W

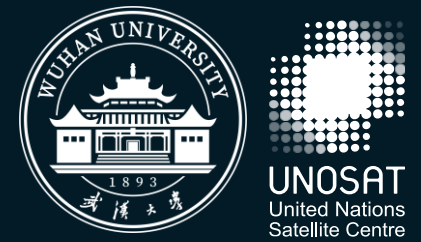


SUMMARY OF FINDINGS



- Significant power outage was observed in Tameslohte (20 km SW Marrakesh) immediately after the earthquake. Power supply in the area is apparently restored to pre-earthquake level on 10 September 2023.
- Significant power outage was observed in Amizmiz (50 km SW Marrakesh) on the first day after the earthquake. Power supply in the area is in recovering but not yet at the pre-earthquake level.
- High-resolution night-time light images are ordered to assess the night-time light situation in rural areas of the atlas mountains South of Marrakesh.

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Data sources:

(1) Satellite Images

Satellite Data : VIIRS VNP46A1 & VIIRS VNP46A2
Acquisition date: 01 August 2023 - 11 September 2023 (UTC)
Resolution: 500 m
Copyright: NASA
Source: NASA

Satellite Data : VIIRS VNP46A3
Acquisition date: 01 July 2023 - 31 August 2023 (UTC)
Resolution: 500 m
Copyright: NASA
Source: NASA

(2) Ancillary data

Administrative boundaries: OCHA Field Information Services Section (FISS)

(3) Scientific references

Jia, M., Li, X., Gong, Y., Belabbes, S., Dell'Oro, L., 2023. Estimating natural disaster loss using improved daily night-time light data. International Journal of Applied Earth Observation and Geoinformation. 120, 103359

Analysis: Wuhan University & United Nations Satellite Centre (UNOSAT)
Production: United Nations Satellite Centre (UNOSAT) & Wuhan University

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