



21 October 2023

Power Supply Assessment and Evolution in Gaza Strip (Occupied Palestinian Territory) using VIIRS Nighttime Light Imagery as of 19 October 2023

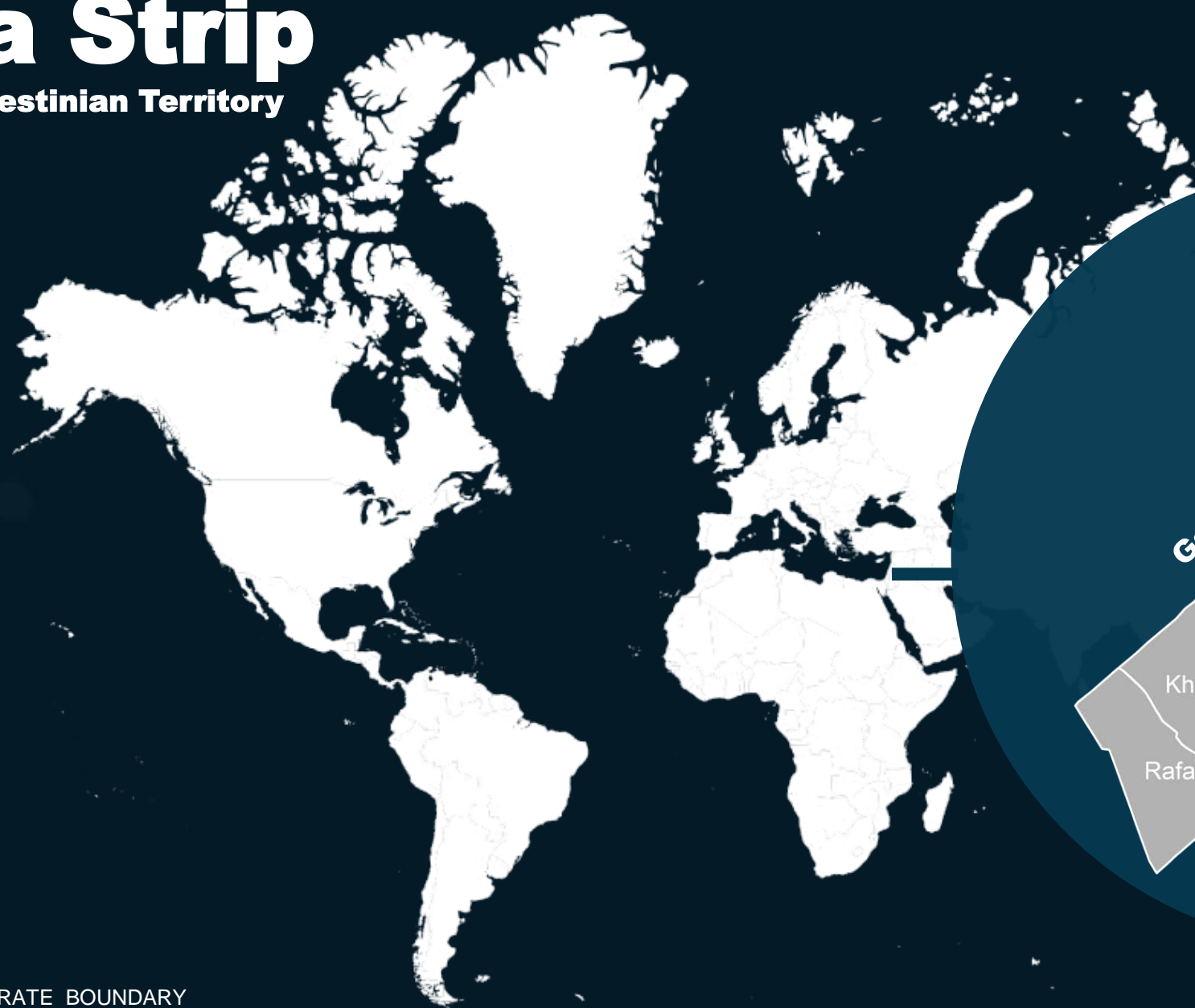
Gaza Strip (Occupied Palestinian Territory)

 Status: Power outage observed

 Further action(s): Continue monitoring with next VHR images

Gaza Strip

Occupied Palestinian Territory



GOVERNORATE BOUNDARY

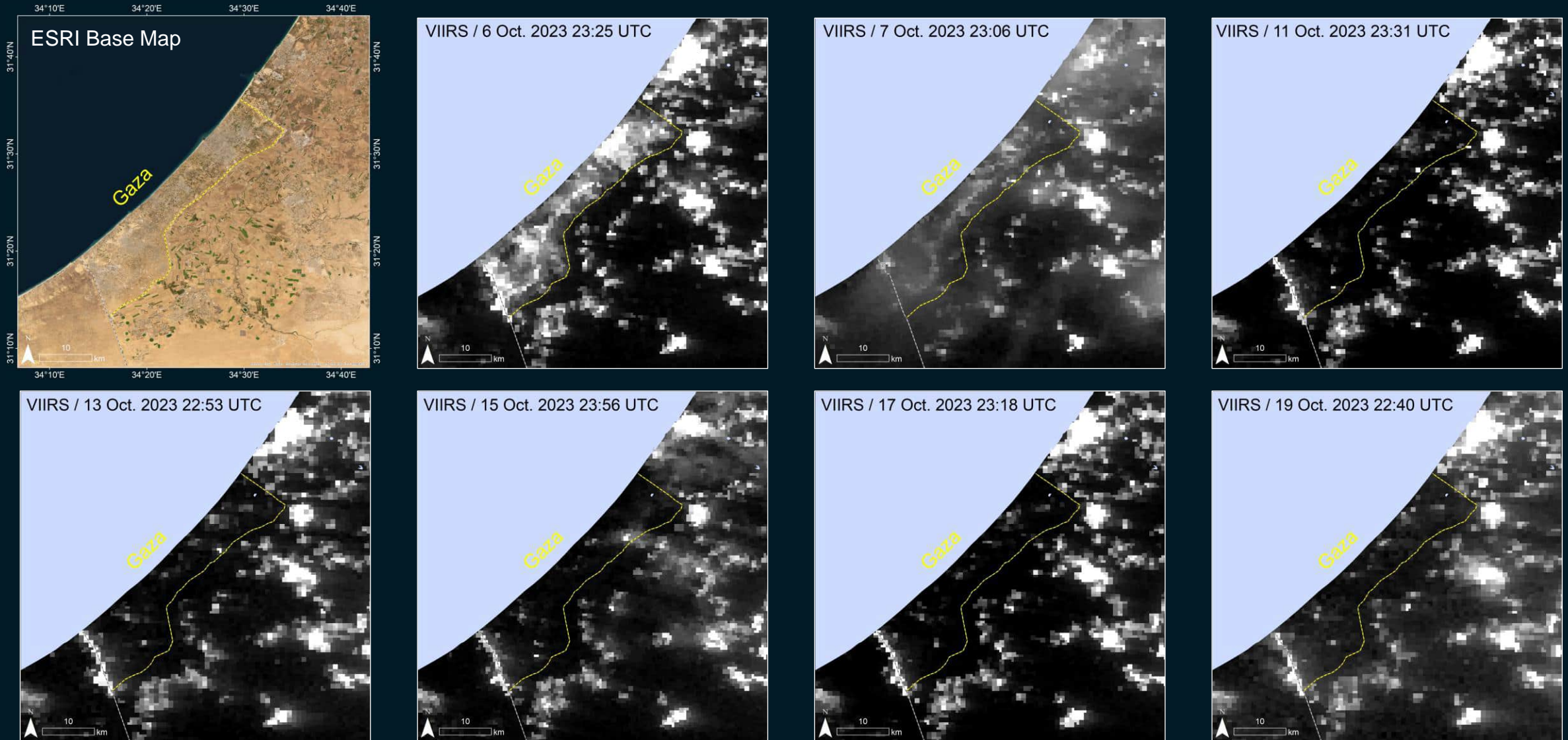
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VIIRS Nighttime Light Images of Gaza Strip

Image center:
31°35'59"N
34°40'54"E



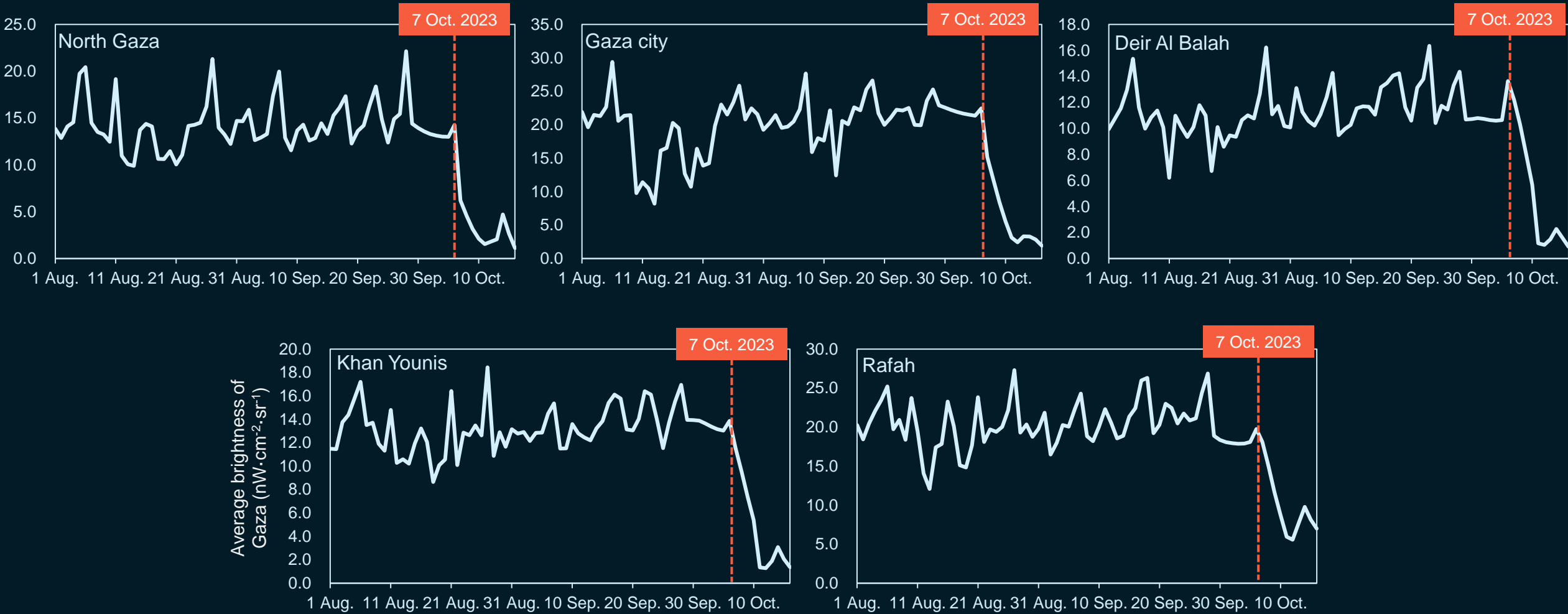
Gaza strip plunged into darkness after 7 October 2023, with only a few buildings with power supply.



Power Supply of Gaza Strip over Time Based on VIIRS Nighttime Light Images

Power supply in the Gaza Strip continued declining after 7 October 2023. As of 16 October 2023, the power supply of most sectors in the Gaza Strip saw a decline of more than 90% when compared with the 6 October 2023 power output.

Image center:
31°35'59"N
34°40'54"E



SUMMARY OF FINDINGS

- Based on VIIRS night-time light images, the Gaza Strip plunged into darkness after 7 October 2023, with only a few buildings having power supply;
- Power supply of the Gaza Strip continued declining after 7 October 2023 by more than 90% when compared with the 6 October 2023 power output. Among the 5 governorates of the Gaza Strip, the Rafah Governorate has the smallest power supply reduction;
- As of 19 October 2023, the power supply of the Gaza Strip has not been restored;
- Further quantitative assessments will be conducted with very high-resolution images.

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Data sources:

(1) Satellite Images

Satellite Data : VIIRS VNP46A1

Acquisition date: 1 August 2023 - 19 October 2023 (UTC)

Resolution: 500 m

Copyright: NASA

Source: NASA

Satellite Data : VIIRS VNP46A2

Acquisition date: 1 August 2023 - 16 October 2023 (UTC)

Resolution: 500 m

Copyright: NASA

Source: NASA

(2) Ancillary data

Administrative boundaries: OCHA oPt

Day-time Satellite Image (Pre-event): ESRI Basemap

Analysis: United Nations Satellite Centre (UNOSAT)

Production: United Nations Satellite Centre (UNOSAT)

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