Power Supply Assessment in Benghazi (Libya) using Night-time Light Imagery

Libya

Status: Power outage observed.

Further action(s): continue monitoring
VIIRS Night-time Light Assessment in Benghazi

No significant power outage observed in Benghazi caused by the floods.
High-resolution Night-time Light Images of Benghazi

On 22 September, no significant power outage blocks observed in Benghazi.
Power Supply Analysis Based on VIIRS Night-time Light Images

Power supply of Benghazi was least affected by the floods. Only a few areas in the east of the city suffered power outage after the floods, in which the power supply has recovered to pre-floods level on 24 September 2023.

8 Sep. 2023 Vs 12 Sep. 2023

8 Sep. 2023 Vs 24 Sep. 2023
• Compared with Derna and Al Bayda, power supply of Benghazi was less affected by the floods. No significant power outage could be observed in Benghazi.

• Only a few areas east of the city of Benghazi suffered of power outage after the floods, in which the power supply has recovered to pre-floods level on 24 September 2023.
Data sources:

(1) Satellite Images

Satellite Data: SDGSAT-1
Imagery Date: 16 May 2023 & 22 September 2023
Resolution: 40 m
Copyright: International Research Center of Big Data for Sustainable Development Goals (CBAS)
Source: International Research Center of Big Data for Sustainable Development Goals (CBAS)

Satellite Data: VIIRS VNP46A1
Acquisition date: 1 July 2023 - 24 September 2023 (UTC)
Resolution: 500 m
Copyright: NASA
Source: NASA

Satellite Data: VIIRS VNP46A2
Acquisition date: 1 July 2023 - 21 September 2023 (UTC)
Resolution: 500 m
Copyright: NASA
Source: NASA

(2) Ancillary data

Administrative boundaries: OCHA Field Information Services Section (FISS)
Landcover data: ESA WorldCover project 2021
Day-time Satellite Image (Pre-event): ESRI Basemap

(3) Scientific references


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

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