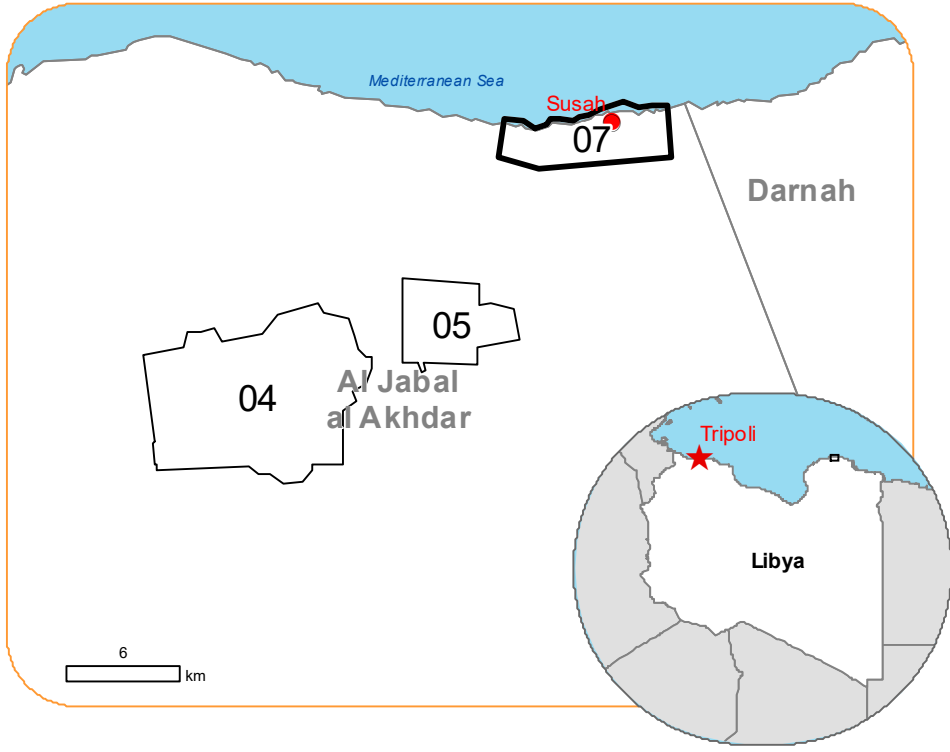


Situation as of 13/09/2023 09:53 UTC
Grading - Overview map 01



Flooded area 3.3 ha
Flood trace 923.2 ha

Potentially affected population ~ 11000

Affected Built-up and Transportations

Built-Up 3,602 No.

Road 100.4 km

Crisis Information

- Flooded Area
- Flood trace

Built-Up Grading

- Unclassified Building, Damaged
- Residential Building, Destroyed
- Residential Building, Damaged
- Non residential Building, Damaged

Facilities Grading

- Damaged
- Possibly damaged

Transportation Grading

- Bridge and elevated highway, Destroyed
- Bridge and elevated highway, No visible damage
- Local road, No visible damage
- Road, Destroyed
- Road, Possibly damaged

General Information

- Area of Interest
- Not Analysed

Placenames

- Placename

Hydrography

- Coastline
- River
- Island
- Open Water
- River

Event:
On the 10 September 2023, Mediterranean storm Daniel caused devastating floods in Libya, sweeping away entire neighborhoods in multiple coastal towns in the North East of the country. It also caused the destruction of two dams upstream of Derna town, triggering a wave of flash floods that hit the heart of the city, with massive destruction to the buildings and all the bridges on Derna valley. As many as 2,000 people were feared dead, according to one of the country's leaders. Copernicus EMS Rapid Mapping is requested to provide flood delineation and damage assessment emergency mapping.

Data sources and analysis: Pre-event image:WorldView-2 © Maxar Technologies, Inc. (2023), (acquired on 22/01/2023 at 09:24 UTC, resolution 0.5 m).
Post-event image: WorldView-2 © Maxar Technologies, Inc. (2023), (acquired on 13/09/2023 at 09:53 UTC, resolution 0.5 m). This image is used as background image.
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Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015, Global Administrative Areas (2012), refined by the producer. Copernicus Global Land Service: Land Cover (2019).
Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2015.

Population data: GHS Population Grid © European Commission, 2023
https://ghsl.jrc.ec.europa.eu/ghs_pop2023.php

The thematic layer has been derived from post-event satellite image using a semi-automatic approach and by means of visual interpretation.

Map produced by GAF AG released by SERTIT on the 14/09/2023.

| Consequences within the AOI | | | | | | | |
|---|--|-----|-----------|---------|-------------------|------------------|--------------|
| | Unit of measurement | | Destroyed | Damaged | Possibly damaged* | Total affected** | Total in AOI |
| Flooded area | | ha | | | | | 3.3 |
| Flood trace | | ha | | | | | 923.2 |
| Estimated population | Number of inhabitants | | | | | ~ 11,000 | ~ 12,000 |
| Built-up | Residential Buildings | No. | 37 | 3,509 | 0 | 3,546 | 3,546 |
| | Industrial buildings | No. | 0 | 54 | 0 | 54 | 55 |
| | School, university and research buildings | No. | 0 | 0 | 0 | 0 | 2 |
| | Unclassified | No. | 0 | 2 | 0 | 2 | 186 |
| Transportation | Primary Road | km | 0.0 | 0.0 | 9.4 | 9.5 | 13.6 |
| | Local Road | km | 17.0 | 0.0 | 70.0 | 87.0 | 89.6 |
| | Cart Track | km | 0.0 | 0.0 | 3.9 | 3.9 | 3.9 |
| | Bridges and elevated highways | No. | 1 | 0 | 0 | 1 | 1 |
| Facilities | Breakwater | ha | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| | Constructions for mining or extraction | ha | 0.0 | 0.0 | 18.5 | 18.5 | 18.5 |
| | Sport and recreation constructions | ha | 0.0 | 0.7 | 0.2 | 0.9 | 1.2 |
| Land use | Shrub and/or herbaceous vegetation association | ha | | | | 348.3 | 866.0 |
| | Other | ha | | | | 285.4 | 514.6 |
| | Heterogeneous agricultural areas | ha | | | | 221.2 | 236.8 |
| | Forests | ha | | | | 36.8 | 661.9 |
| | Open spaces with little or no vegetation | ha | | | | 34.7 | 40.8 |
| * Presence of damage proxies and proximity with destroyed/damaged asset ** Sum of all damage classes | | | | | | | |

Disclaimer:

Full disclaimer and other helpful information available in the online manual:

<https://emergency.copernicus.eu/mapping/ems/online-manual-rapid-mapping-products>

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Data access:

All data displayed on the map(s), as well as Land Use - Land Cover layer(s), are available in the Crisis Information Package and the Base Layer Package (for reference data).

The table above is available in editable format in the Crisis Information Package.

All products and data are also available for download on the portal.



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