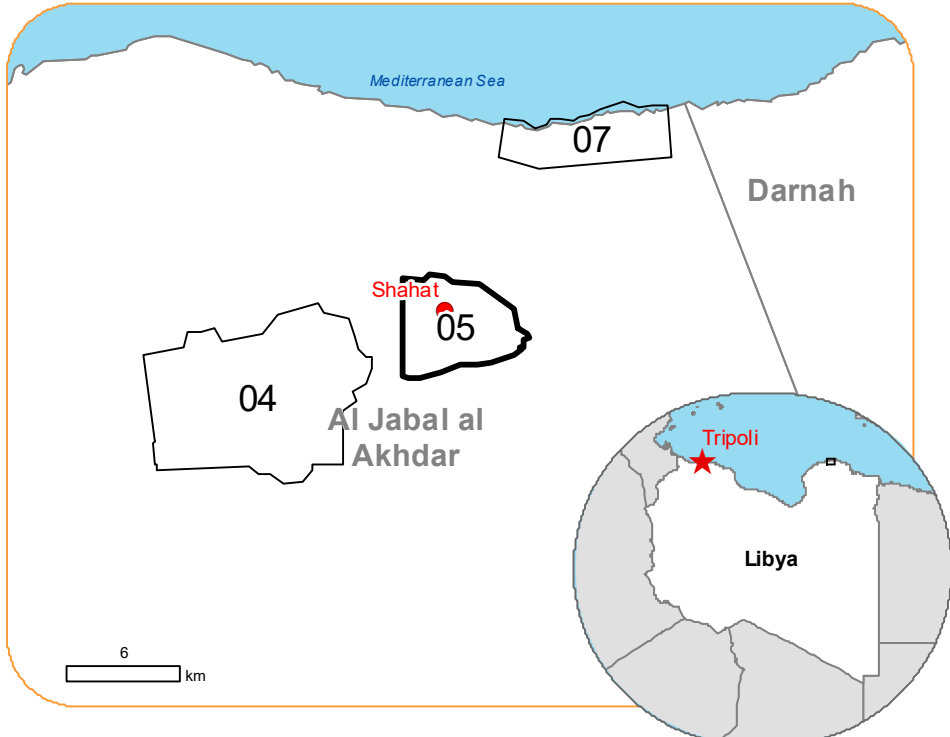




EMSR696 - AO105
Flood in Libya
SHAHAH

Situation as of 13/09/2023 09:14 UTC
Grading - Overview map 01



Flooded area
129.1 ha
Flood trace
84.4 ha

Potentially affected population
~ 250

Affected Built-up and Transportations

Road
0.4 km

Built-up
98 No.

Crisis Information

Flooded Area
Flood trace

Built-Up Grading

- Residential Building, Damaged
- Residential Building, Possibly damaged
- Non-residential Building, Possibly damaged
- Unclassified Building, Possibly damaged

Facilities Grading

- Long-distance pipeline or line, Possibly damaged

Transportation Grading

- Main road, No visible damage
- Track, No visible damage
- Local road, No visible damage
- Road, Damaged
- Road, Possibly damaged
- Highway, No visible damage

General Information

Area of Interest
Not Analysed

Placenames

- Placename

Hydrography

- Lake
- Reservoir

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: ESRI World Imagery © DigitalGlobe (acquired on 05/06/2022, resolution 0.6 m).
Post-event image: Pleiades-1A/B © CNES (2023), distributed by Airbus DS (acquired on 13/09/2023 at 09:14 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 by means of visual interpretation.

This analysis has been supplemented by the social media.

Map produced by CLS 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					129.1
Flood trace		ha					84.4
Estimated population		Number of inhabitants				~ 250	~ 26,000
Built-up	Residential Buildings	No.	0	19	57	76	77
	Police station	No.	0	0	0	0	1
	Industrial buildings	No.	0	0	0	0	1
	Reservoirs, silos and warehouses	No.	0	0	4	4	4
	School, university and research buildings	No.	0	0	1	1	10
	Buildings used as places of worship and for religious activities	No.	0	0	0	0	9
	Hotel buildings	No.	0	0	1	1	1
	Unclassified	No.	0	0	16	16	392
Transportation	Highways	km	0.0	0.0	0.0	0.0	9.9
	Primary Road	km	0.0	0.0	0.0	0.0	9.5
	Secondary Road	km	0.0	0.0	0.2	0.2	10.3
	Local Road	km	0.0	0.0	0.1	0.2	133.3
	Cart Track	km	0.0	0.0	0.0	0.0	25.5
Facilities	Settling Basin	ha	0.0	0.0	0.0	0.0	0.7
	Sport and recreation constructions	ha	0.0	0.0	0.0	0.0	6.9
	Long-distance pipelines, communication and electricity lines	km	0.0	0.0	0.5	0.5	5.3
Land use	Heterogeneous agricultural areas	ha				157.1	1,459.1
	Shrub and/or herbaceous vegetation association	ha				41.1	631.1
	Forests	ha				13.2	159.0
	Other	ha				2.0	397.9
	Open spaces with little or no vegetation	ha				0.0	38.8
<p>* Presence of damage proxies and proximity with destroyed/damaged asset</p> <p>** Sum of all damage classes</p>							

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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