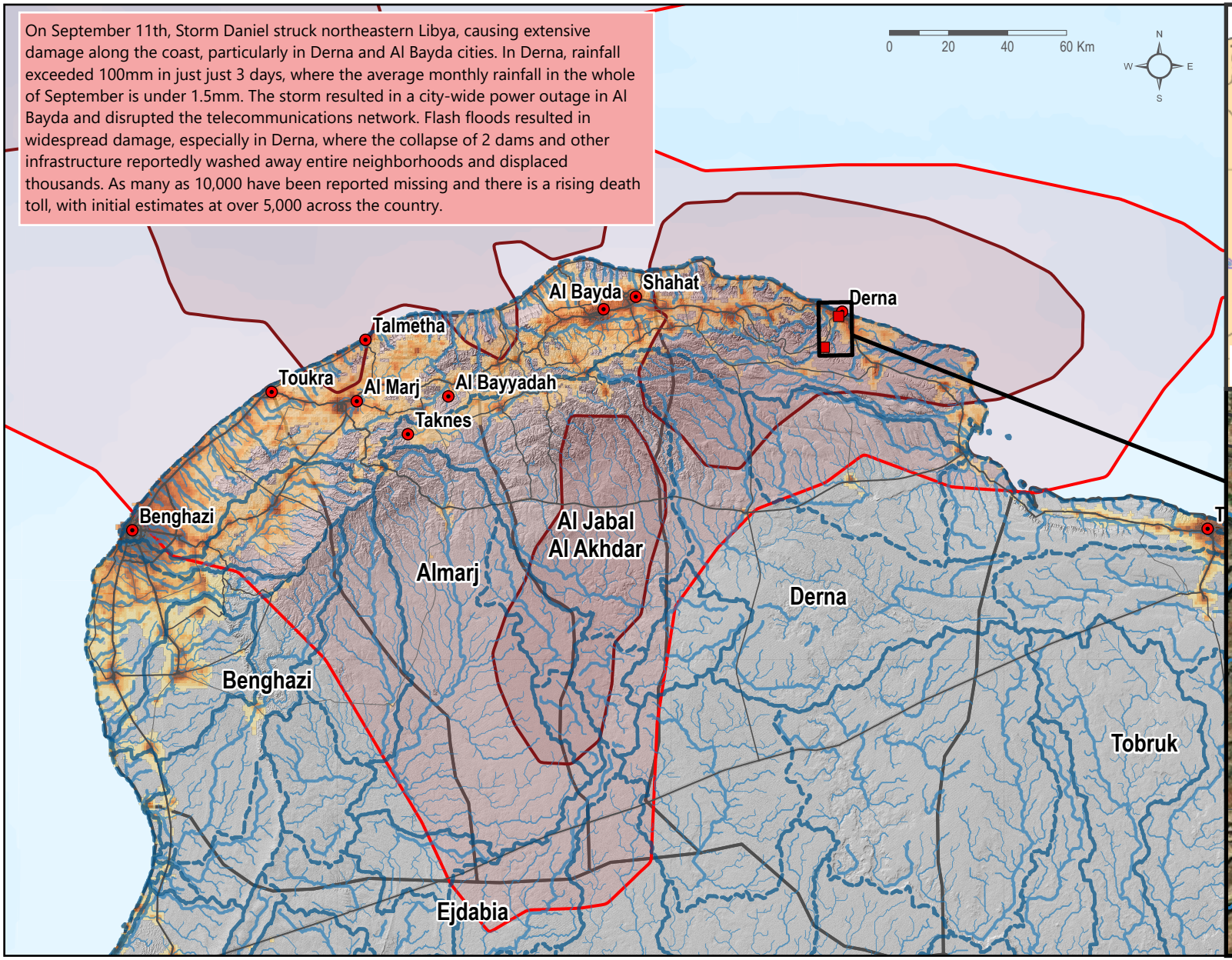
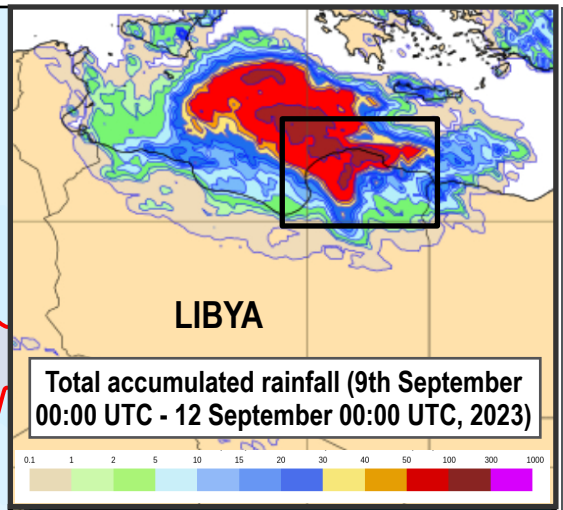
LIBYA FLOODS

Storm Daniel: accumulated rainfall and potentially exposed population

For humanitarian purposes only
Production date : 12 Sept 2023

On September 11th, Storm Daniel struck northeastern Libya, causing extensive damage along the coast, particularly in Derna and Al Bayda cities. In Derna, rainfall exceeded 100mm in just just 3 days, where the average monthly rainfall in the whole of September is under 1.5mm. The storm resulted in a city-wide power outage in Al Bayda and disrupted the telecommunications network. Flash floods resulted in widespread damage, especially in Derna, where the collapse of 2 dams and other infrastructure reportedly washed away entire neighborhoods and displaced thousands. As many as 10,000 have been reported missing and there is a rising death toll, with initial estimates at over 5,000 across the country.





- 50-100mm accumulated rainfall
- 100-300mm accumulated rainfall
- Affected settlements
- Affected dams
- Admin 2 boundaries
- Derna Neighborhood (REACH)

Population density (WorldPop, 2020)
Persons/km2
5124
0

- Trunk road (OSM)
- Secondary road (OSM)
- Primary road (OSM)

- Watersheds (HydroSHEDS Level 7)

Stream flow (Hydrorivers)
Ordinal class
- 1
- 2
- 3 - 4
- 5 - 6

Note: rainfall accumulation is estimated based on ECMWF forecast. Areas of high rainfall not necessarily affected by flooding

Data sources: Total accumulated rainfall: ECMWF early-run high resolution forecast (HRES); Neighbourhoods in Derna: REACH Area-Based Assessment (Nov-Dec 2022); Elevation: SRTM; Rivers and watersheds: WWF HydroSheds; Roads: OSM (2023); affected settlements: IOM (11/09/2023).
Coordinate System:WGS 1984 UTM Zone 34N
Projection: Transverse Mercator
File: REACH_Libya_Storm_Daniel_Potential_Exposure_Sept2023
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Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by REACH partners, associates or donors mentioned on this map.

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