



EMSR793 - AOI01
Storm in Mozambique
MONAPO

Situation as of 14/03/2025 14:40 UTC
Delineation MONIT01 - Overview map 01



Flooded area 5,141.9 ha



Potentially affected population
~ 450

Potentially Affected Built-up and Transportations



Built-Up
16.9 ha

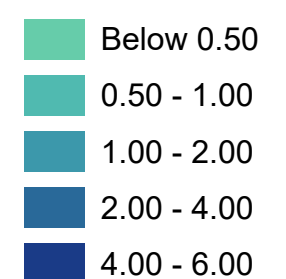


Road
2.0 km



Railway
0.2 km

Estimated flood depth (m)



- Non residential
- School, university and research buildings

Hydrography

- Lake, River

Facilities

- Long-distance pipelines or lines

- Dam

- Mining or extraction site

- Sport and recreation constructions

Transportation

- Highway

- Main road

- Local road

- Railway

- Airfield runway

- Airfield

Crisis Information

- Maximum Flood Extent

General Information

- Area of Interest

Administrative Boundaries

- Province

- Municipality

Placenames

- Placename

Built-Up Area

- Residential

Event: On the 10 March 2025 at 01:00 UTC the Tropical Cyclone Jude made landfall in Mozambique. The event is on-going and is bringing hurricane-force winds and torrential flooding in several districts of Nampula Province. Copernicus EMS Rapid Mapping is requested to provide initial rough estimation, Storm extent and damage assessment emergency mapping.

Data sources and analysis: Pre-event image: Sentinel-2A/B (2024) (acquired on 28/09/2024 at 07:16 UTC and on 30/10/2024 07:32 UTC, resolution 10.0 m). These images are used as background image.
Post-event image: COSMO-SkyMed SG © ASI (2025), distributed by e-GEOS S.p.A. (acquired on 14/03/2025 at 14:40 UTC, resolution 10.0 m). All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

The flood depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The maximum flood extent corresponds to the flood observed in all previous products (cumulative analysis). The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

Map produced by Planetek Hellas released by e-GEOS on the 15/03/2025.

Details on this activation and service conditions available through the QR code or at the link <https://mapping.emergency.copernicus.eu/activations/EMSR793>



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Consequences within the AOI				
		Unit of measurement	Affected	Total in AOI
Flooded area*		ha		5,141.9
Maximum flood extent**		ha		12,803.5
Estimated population	Number of inhabitants		~ 450	~ 350,000
Built-up	Residential Buildings	ha	16.8	1,909.2
	Industrial buildings	ha	0.01	22.0
	School, university and research buildings	ha	0	0.02
Transportation	Airfield runways	ha	0	53.5
	Airfield runways	km	0	4.9
	Highways	km	0.01	11.8
	Primary Road	km	0.04	84.4
	Secondary Road	km	0	18.8
	Local Road	km	1.4	296.5
	Cart Track	km	0.5	352.0
	Long-distance railways	km	0.2	125.3
Facilities	Constructions for mining or extraction	ha	0	30.4
	Sport and recreation constructions	ha	0	2.1
	Long-distance pipelines, communication and electricity lines	km	0.2	46.8
	Dams	km	0	0.5
Land use	Forests	ha	1,701.1	146,179.1
	Inland wetlands	ha	1,368.5	5,476.4
	Shrub and/or herbaceous vegetation association	ha	1,365.3	41,246.5
	Other	ha	477.5	19,271.3
	Heterogeneous agricultural areas	ha	201.0	18,478.0
	Open spaces with little or no vegetation	ha	28.4	63.3

* Corresponds to the water observed in the most recent satellite imagery, excluding permanent water

** Corresponds to the water observed in all previous products and in all crisis imagery, excluding permanent water (cumulative analysis).

Disclaimer:

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

<https://mapping.emergency.copernicus.eu/about/rapid-mapping-manual/>

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Data Access:

All data displayed on the map(s), as well as the Physiography and Land Use - Land Cover layers, 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.

Access to the portal



Estimated Population:

Estimated population is based on Copernicus Global Human Settlement Layer (GHSL) dataset.

Additional population datasets and analysis are available in the summary table.

Data Sources:

Base Vector Layers: OpenStreetMap © OpenStreetMap contributors (2025); Wikimapia.org; GeoNames 2015;

Global Administrative Areas (2012), refined by the producer, Globe Land 30 (2010), Copernicus Global Land Service: Land Cover (2019).

Inset maps: Natural Earth 2023; HydroLAKES 2016 by HydroSHEDS;

© EuroGeographics, © TurkStat. Source: European Commission – Eurostat/GISCO, 2021.

Digital Elevation Model: FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30

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Digital Elevation Model (DEM) (Airbus, 2020).



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