



Situation as of 23/01/2026 14:49 UTC
Delineation MONIT02 - Overview map 01



Flooded area
EO-based 107,811.2 ha
Model-based 17,659.3 ha

Potentially affected population
~ 16,300

Potentially Affected Built-up and Transportations

Railway 1.0 km
Road 330.7 km
Built-Up 308.2 ha

Estimated flood depth (m)

Below 0.50
0.50 to 1.00
1.00 to 2.00
2.00 to 4.00
Above 4.00

Hydrography

Lake, River

Facilities

Long-distance pipelines or lines
Local pipelines or lines
Dam
Mining or extraction site
Sport and recreation constructions

General Information

Area of Interest
Image Footprint
Not Analysed

Built-Up Area

Residential
Non residential
School, university and research buildings
Hospital or institutional care buildings

Transportation

Highway
Main road
Local road
Track
Railway
Airfield runway
Airfield

Event: Heavy rain that started in December, has caused several floods in Mozambique. The event is ongoing. Copernicus EMS Rapid Mapping is requested to provide initial rough estimation and flood extent emergency mapping

Data sources and analysis:

Pre-event image: ESRI World Imagery © DigitalGlobe (acquired on 06/05/2024, resolution 4.3 m). This image is used as background image.
Post-event image: COSMO-SkyMed SG © ASI (2026), distributed by e-GEOS S.p.A. (acquired on 23/01/2026 at 14:49 UTC, resolution 28.0 m).

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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 flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

The extrapolated flood extent and depth are generated by integrating observed flooded areas with a Digital Terrain Model (DTM). The model's accuracy and spatial coverage depend on DTM resolution and quality, enabling the prediction of potentially flooded areas in regions with limited visibility in imagery, such as urban and forested zones.

Map produced by Telespazio Iberica released by e-GEOS on the 27/01/2026.

Details on this activation and service conditions available through the QR code or at the link: <https://mapping.emergency.copernicus.eu/activations/EMSR857>



Consequences within the AOI

			LATEST IMPACT			
			Unit of measurement	Imagery-based observation*	Model-based output	Imagery- and Model-based results
Crisis information	Flooded area		ha	107,811.2	17,659.3	125,470.6
	Maximum of all extents**		ha	107,811.2	17,659.3	125,470.6

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total In AOI
Estimated population		Inhabitants	No.	~ 5,300	~ 11,000	~ 16,300	~ 640,000
Assets	Built-up	Residential Buildings	ha	67.2	241.1	308.2	5,961.4
		Industrial buildings	ha	0	0	0	19.9
		School, university and research buildings	ha	0	0	0	0.2
		Hospital or institutional care buildings	ha	0	0	0	0.04
		Cemetery	ha	0	0	0	0.9
	Transportation	Airfield runways	ha	0	0	0	0.2
		Airfield runways	km	0	0	0	1.8
		Highways	km	7.5	1.9	9.5	32.6
		Primary Road	km	11.3	9.8	21.1	105.0
		Secondary Road	km	8.7	3.5	12.1	50.8
		Local Road	km	22.0	48.6	70.6	2,364.4
		Cart Track	km	148.6	68.8	217.4	627.0
		Long-distance railways	km	0.2	0.8	1.0	29.6
	Facilities	Constructions for mining or extraction	ha	0	0	0	1.6
		Sport and recreation constructions	ha	0.7	1.5	2.2	5.4
		Long-distance pipelines, communication and electricity lines	km	34.9	3.8	38.7	79.7
		Local pipelines and cables	km	0	0	0	4.4
		Dams	km	0	0.03	0.03	0.8
	Land use	Heterogeneous agricultural areas	ha	69,286.4	9,888.2	79,174.6	127,367.6
		Shrub and/or herbaceous vegetation association	ha	19,385.0	1,847.1	21,232.0	28,555.5
		Inland wetlands	ha	12,639.5	3,063.5	15,703.1	19,407.7
		Forests	ha	5,772.5	2,420.2	8,192.7	41,177.5
		Other	ha	704.4	433.2	1,137.6	17,620.0
		Open spaces with little or no vegetation	ha	23.4	7.2	30.6	45.3

* Corresponds to the water observed in the most recent satellite imagery, excluding permanent water
** Corresponds to the geographic union (and NOT the sum) of all Crisis Information extents.

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 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.

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 (2026); Wikimapia.org; GeoNames 2015;
© EuroGeographics, © TurkStat. Source: European Commission – Eurostat/GISCO, 2024.
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, 2024.

Digital Elevation Model:
FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus, 2020).

