



EMSR857 - AOI05
Flood in Mozambique
CHINHANGANE

Situation as of 19/01/2026 15:13 UTC
Delineation MONIT01 - Overview map 01



Flooded area
EO-based 7,523.6 ha
Model-based 5,765.9 ha



Potentially affected
population
~ 1,800

Potentially Affected Built-up and Transportations



Built-Up
19.8 ha



Road
50.2 km



Water infrastructure
0.2 km

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

General Information

Area of Interest

Built-Up Area

Residential

Hydrography

Lake, River

Facilities

Dam

Transportation

Local road

Track

Airfield runway

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: Sentinel-2 (2025) (acquired on 23/11/2025 at 07:55 UTC, resolution 10.0 m). This image is used as background image. Post-event image: COSMO-SkyMed © ASI (2026), distributed by e-GEOS S.p.A. (acquired on 19/01/2026 at 15:13 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 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 e-GEOS released by e-GEOS on the 20/01/2026.

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



PROGRAMME OF THE
EUROPEAN UNION



0 1.25 2.5 5 km
WGS 1984 UTM Zone 36S 1:82,000

Consequences within the AOI

			Unit of measurement	LATEST IMPACT		
				Imagery-based observation*	Model-based output	Imagery- and Model-based results
Crisis information	Flooded area		ha	7.523,6	5.765,9	13.289,5
	Maximum of all extents**		ha	7.523,6	5.765,9	13.289,5

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	~ 1.000	~ 800	~ 1800,,	~ 30.000
Assets	Built-up	Residential Buildings	ha	9,2	10,6	19,8	110,5
	Transportation	Airfield runways	km	0	0	0	2,0
		Local Road	km	9,8	8,0	17,8	82,6
		Cart Track	km	19,3	13,1	32,3	263,1
	Facilities	Dams	km	0	0,2	0,2	4,3
	Land use	Heterogeneous agricultural areas	ha	4.566,7	3.121,7	7.688,4	15.389,2
		Forests	ha	1.996,6	1.941,9	3.938,4	39.520,6
		Shrub and/or herbaceous vegetation association	ha	834,6	568,6	1.403,2	8.591,3
		Inland wetlands	ha	101,3	112,1	213,4	690,1
		Other	ha	24,5	21,6	46,1	1.416,9

* 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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Access to the portal



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