



EMSR857 - AOI07  
Flood in Mozambique  
MASSANGENA

Situation as of 22/01/2026 16:25 UTC  
Delineation - Overview map 01



Flooded area  
EO-based 558.6 ha  
Model-based 2,503.9 ha

Potentially affected population  
~ Not available

Road  
0.7 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

**Crisis Information**

- Flooded Area

**General Information**

- Area of Interest

**Built-Up Area**

- Residential

**Hydrography**

- Lake, River

**Facilities**

- Long-distance pipelines or lines

**Transportation**

- Local road
- Track

**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 26/10/2025 at 07:40 UTC resolution 10 m).  
Post-event image: TerraSAR-X (2026) (acquired on 22/01/2026 at 16:25 UTC resolution 8.2 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.

An extrapolated flood extent is generated by integrating observed flood 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 23/01/2026.

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

			Unit of measurement	LATEST IMPACT		
Crisis information				Imagery-based observation*	Model-based output	Imagery- and Model-based results
Flooded area			ha	558,6	2.503,9	3.062,5
Maximum of all extents**			ha	558,6	2.503,9	3.062,5

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	NA	NA	-	~ 12.000
Assets	Built-up	Residential Buildings	ha	0	0	0	133,8
	Transportation	Local Road	km	0	0	0	54,3
		Cart Track	km	0,2	0,5	0,7	148,7
	Facilities	Long-distance pipelines, communication and electricity lines	km	0,04	0,3	0,3	18,5
	Land use	Forests	ha	260,2	1.658,2	1.918,4	64.608,5
		Shrub and/or herbaceous vegetation association	ha	161,1	473,5	634,5	13.381,0
		Inland wetlands	ha	113,5	269,3	382,8	2.693,3
		Other	ha	16,3	27,4	43,8	413,1
		Heterogeneous agricultural areas	ha	7,5	75,5	83,1	256,4
		Open spaces with little or no vegetation	ha	0	0	0	45,2

\* 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

