



EMSR857 - AOI02  
Flood in Mozambique  
MASSIGUITA

Situation as of 20/01/2026 10:54 UTC  
Delineation - Overview map 01



Flooded area  
EO-based 12,100.4 ha  
Model-based 7,587.9 ha

Potentially affected population  
~ 2,350

Potentially Affected Built-up and Transportations

Railway  
3.3 km

Road  
117.3 km

Built-Up  
15.9 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

#### Crisis Information

Flooded Area

#### General Information

Area of Interest

#### Built-Up Area

Non residential  
School, university and research buildings  
Unclassified

#### Built-Up Area

Residential

#### Hydrography

Lake, River

#### Facilities

Long-distance pipelines or lines

Mining or extraction site

Dam

#### Transportation

Main road

Local road

Track

Railway

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 16/06/2024, resolution 8.6 m). This image is used as background image.  
Post-event image: IE00 © copyright owned by ICEYE OY (acquired on 20/01/2026 at 10:54 UTC, resolution 6.0 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 CLS 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>





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	12 100,4	7 587,9	19 688,3
	Maximum of all extents**		ha	12 100,4	7 587,9	19 688,3

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	~ 750	~ 1 600	~ 2350	~ 70 000
Assets	Built-up	Residential Buildings	ha	5,1	10,7	15,9	1 642,7
	Transportation	Airfield runways	ha	0	5,9	5,9	24,0
		Primary Road	km	3,3	2,9	6,1	11,4
		Secondary Road	km	4,0	5,2	9,2	84,1
		Local Road	km	21,5	24,0	45,6	447,8
		Cart Track	km	29,2	27,3	56,5	724,6
		Long-distance railways	km	1,0	2,3	3,3	82,8
	Facilities	Dams	ha	0,1	0,1	0,3	0,3
		Constructions for mining or extraction	ha	3,6	3,7	7,3	37,7
		Long-distance pipelines, communication and electricity lines	km	3,1	2,7	5,8	64,2
	Land use	Heterogeneous agricultural areas	ha	4 944,5	2 620,3	7 564,8	33 340,9
		Forests	ha	4 609,4	3 725,6	8 335,0	68 046,4
		Shrub and/or herbaceous vegetation association	ha	1 877,7	811,4	2 689,1	29 570,9
		Inland wetlands	ha	651,8	369,6	1 021,4	1 772,5
		Other	ha	17,1	60,9	78,0	1 656,5

\* 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/>

© European Union / Copernicus Emergency Management Service

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.

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 (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:

SRTM (90 m) or (30 m) (NASA/USGS) or COP-DEM-EEA-10-R product © DLR e.V. (2014-2018) and

© Airbus Defence and Space GmbH (2020) provided under COPERNICUS by the European Union and ESA, all rights reserved.

FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30

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