





EMSR857 - AOI01
Flood in Mozambique
CHIBABEL

Situation as of 20/01/2026 03:56 UTC
Delineation MONIT01 - Overview map 01





Flooded area
EO-based 127,755.1 ha
Model-based 26,293.1 ha



Potentially affected population
~ 47,000

Potentially Affected Built-up and Transportations



Railway
9.5 km



Road
656.9 km



Built-Up
1,091.1 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

Facilities

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

General Information

	Area of Interest
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Built-Up Area

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

Hydrography

	Lake, River
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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 20/01/2026 at 03:56 UTC, resolution 15.0 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.

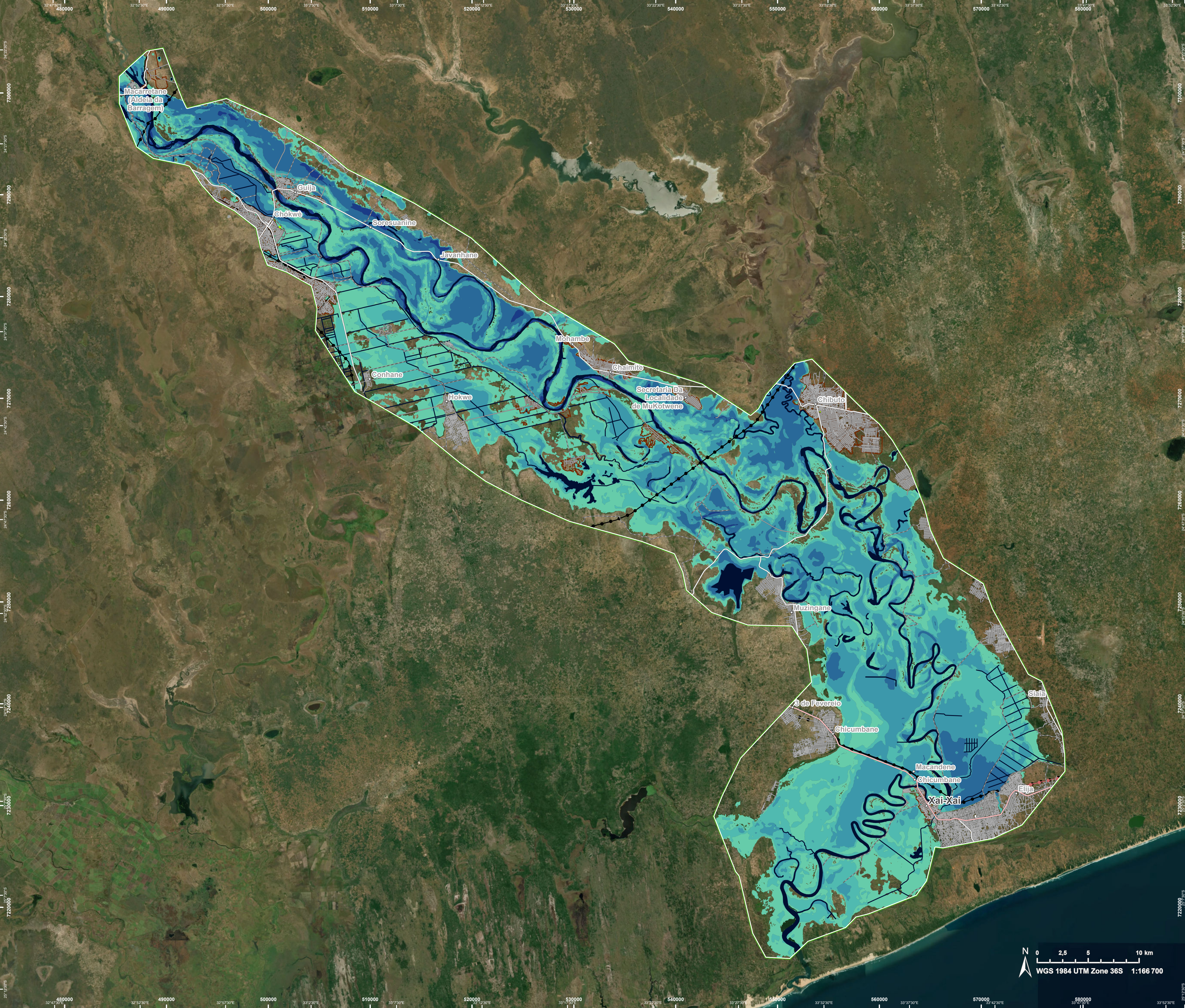
The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

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 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	127 755,1	26 293,1	154 048,1
	Maximum of all extents**		ha	127 755,1	26 293,1	154 048,1

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	~ 19 000	~ 28 000	~ 47000	~ 640 000
Assets	Built-up	Residential Buildings	ha	397,7	693,1	1 090,8	5 981,4
		Industrial buildings	ha	0	0,01	0,01	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	0,05	0,3	0,3	0,9
	Transportation	Airfield runways	ha	0	0	0	0,2
		Airfield runways	km	0	0	0	1,8
		Highways	km	5,0	4,6	9,6	32,6
		Primary Road	km	31,8	16,2	48,0	105,0
		Secondary Road	km	17,4	8,7	26,1	50,8
		Local Road	km	109,4	120,1	229,5	2 359,3
		Cart Track	km	239,4	104,2	343,6	610,5
		Long-distance railways	km	7,3	2,2	9,5	29,6
	Facilities	Constructions for mining or extraction	ha	0	0	0	1,6
		Sport and recreation constructions	ha	2,2	0,6	2,8	5,4
		Long-distance pipelines, communication and electricity lines	km	46,0	5,0	50,9	79,7
		Local pipelines and cables	km	0	0	0	4,4
		Dams	km	0,03	0,1	0,1	0,8
	Land use	Heterogeneous agricultural areas	ha	86 422,8	14 948,1	101 370,9	125 471,9
		Shrub and/or herbaceous vegetation association	ha	20 084,8	2 953,6	23 038,4	28 085,5
		Inland wetlands	ha	10 541,9	4 146,1	14 688,0	18 280,3
		Forests	ha	9 481,9	3 120,4	12 602,3	36 001,8
		Other	ha	1 188,1	1 124,7	2 312,8	17 597,8
		Open spaces with little or no vegetation	ha	35,5	0,2	35,7	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:
SRTM (90 m) or (30 m) (NASA/USGS) or COP-DEM-EEA-10-R product © DLR e.V. (2014-2018) and
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FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30
Digital Elevation Model (DEM) (Airbus, 2020).

