

Situation as of 23/01/2026 03:17 UTC  
Delineation MONIT03 - Overview map 01



Flooded area  
EO-based 108,118.2 ha  
Model-based 16,711.8 ha

Potentially affected population  
~ 3,400

Potentially Affected Built-up and Transportations

Built-Up  
101.8 ha

Road  
509.6 km

Railway  
10.9 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  
 Detail map

#### Built-Up Area

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

#### Hydrography

Lake, River

#### Facilities

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

#### 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: 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: Sentinel-1 (2026) (acquired on 23/01/2026 at 03:17 UTC; resolution 10.0 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. 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.

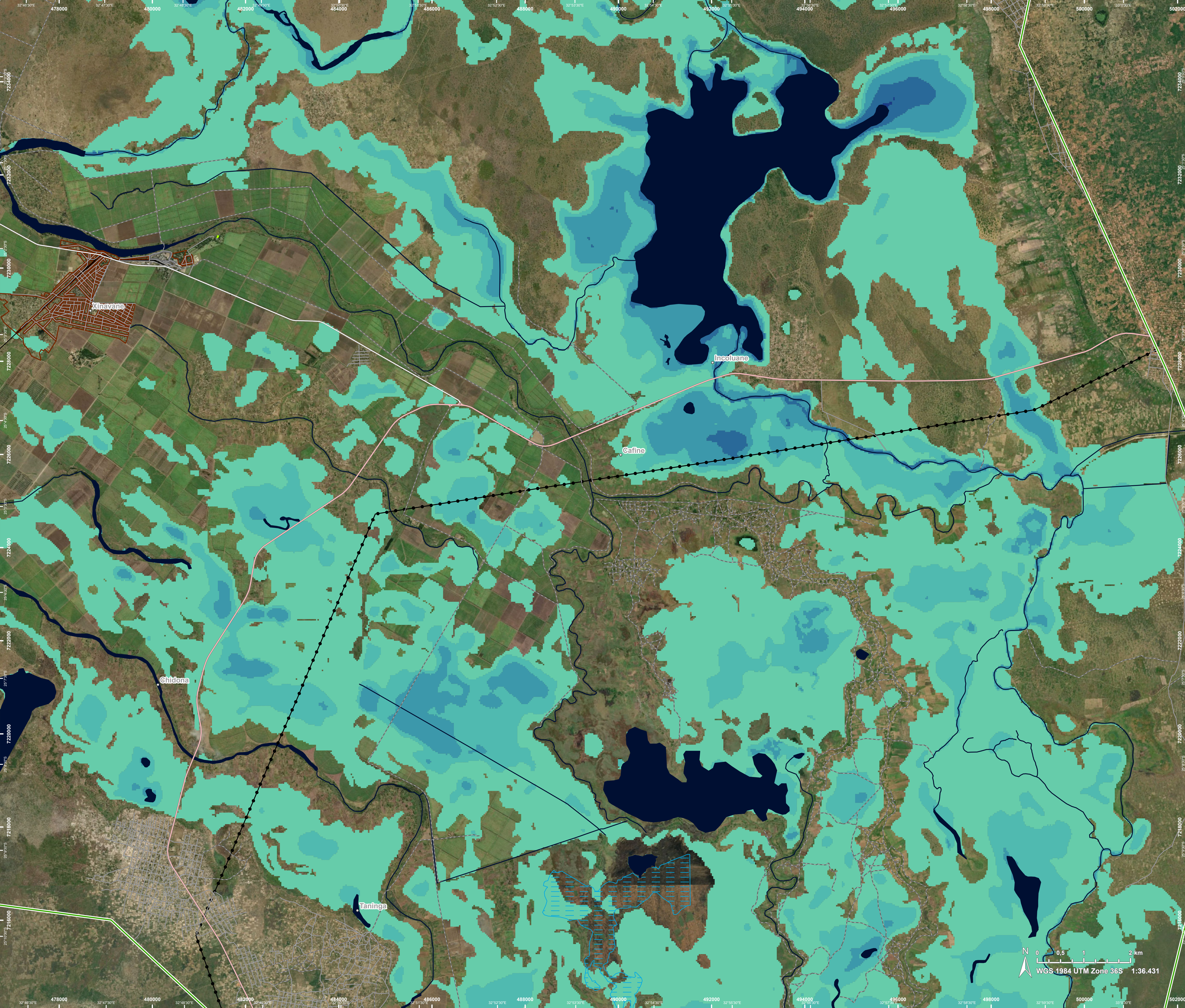
Map produced by e-GEOS released by e-GEOS on the 24/01/2026.

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

0 5 10 20 km  
WGS 1984 UTM Zone 36S 1:350,000







EMSR857 - AOI06  
Flood in Mozambique  
PALMEIRA

Situation as of 23/01/2026 03:17 UTC  
Delineation MONIT03 - Detail map 02



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
- Non residential

Hydrography

- Lake, River

Facilities

- Long-distance pipelines or lines
- Sport and recreation constructions

Transportation

- Highway
- Main road
- Local road
- Track
- Railway

**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.

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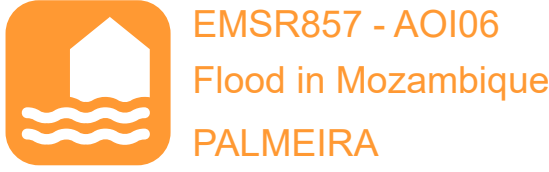
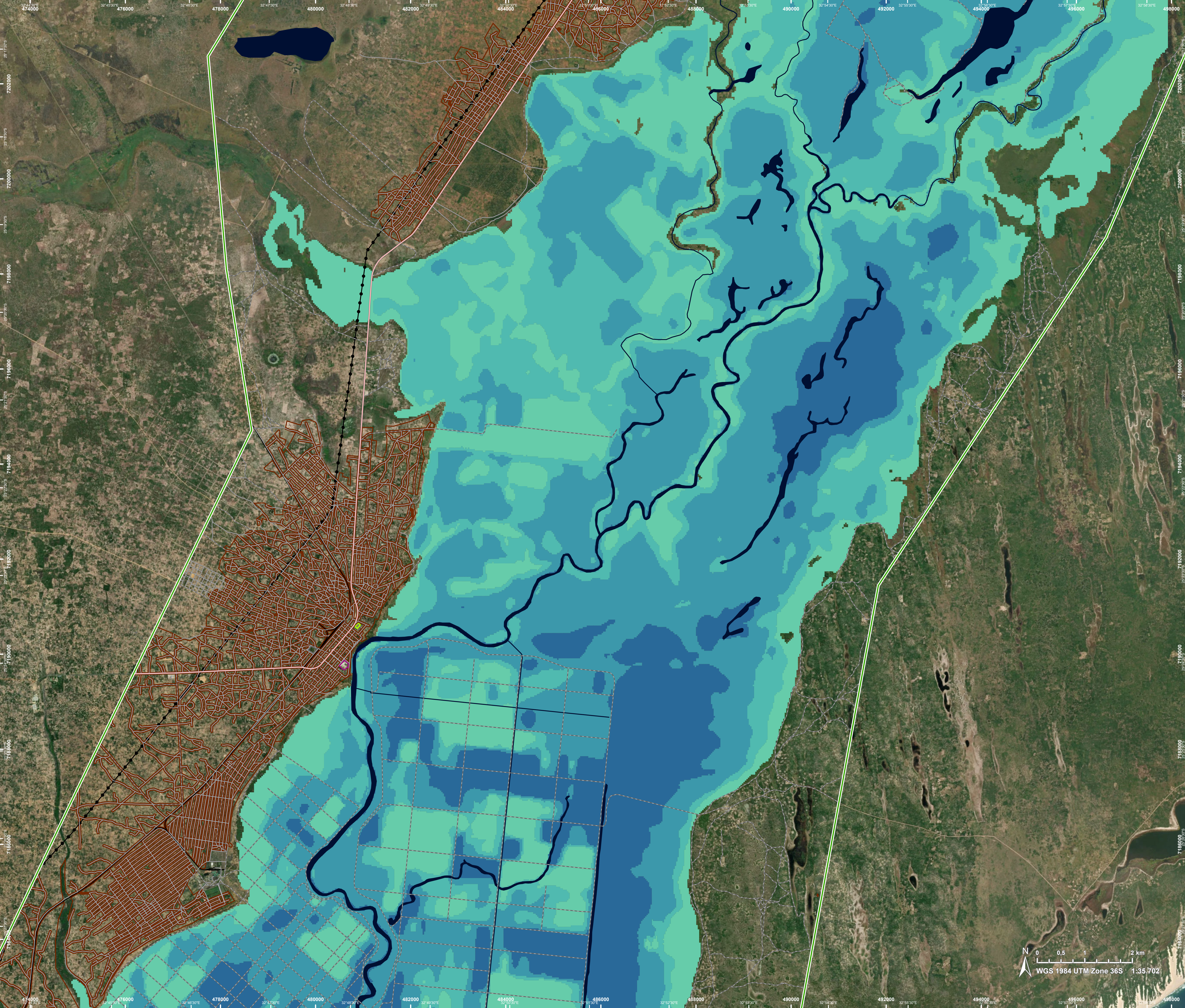
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PROGRAMME OF THE  
EUROPEAN UNION







Situation as of 23/01/2026 03:17 UTC  
Delineation MONIT03 - Detail map 03



- Estimated flood depth (m)**

  - Below 0.50
  - 0.50 to 1.00
  - 1.00 to 2.00
  - 2.00 to 4.00

**General Information**

  - Area of Interest

**Built-Up Area**

  - Residential
  - Non residential
  - Hospital or institutional care buildings
- Hydrography**

  - Lake, River

**Facilities**

  - Long-distance pipelines or lines
  - Sport and recreation constructions

**Transportation**

  - Highway
  - Local road
  - Track
  - Railway

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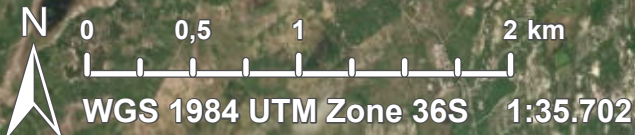
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Consequences within the AOI

			LATEST IMPACT			
			Unit of measurement	Imagery-based observation*	Model-based output	Imagery- and Model-based results
Crisis information	Flooded area		ha	108.118,2	16.711,8	124.830,0
	Maximum of all extents**		ha	108.118,2	16.711,8	124.830,0

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	~ 1.100	~ 2.300	~ 3400,	~ 360.000
Assets	Built-up	Residential Buildings	ha	14,3	87,5	101,8	16.585,2
		Office buildings	ha	0	0	0	0,2
		Industrial buildings	ha	0	0	0	66,3
		School, university and research buildings	ha	0	0	0	10,9
		Hospital or institutional care buildings	ha	0	0	0	8,5
		Cemetery	ha	0	0	0	9,9
	Transportation	Airfield runways	ha	0	0	0	14,8
		Airfield runways	km	0	0	0	2,3
		Highways	km	3,9	5,8	9,8	88,0
		Primary Road	km	4,6	0,2	4,8	45,4
		Secondary Road	km	2,7	4,7	7,4	119,1
		Local Road	km	10,2	11,4	21,6	1.786,9
		Cart Track	km	398,5	67,6	466,0	1.577,1
		Long-distance railways	km	4,6	6,2	10,9	162,4
	Facilities	Constructions for mining or extraction	ha	0	0	0	3,3
		Power plant constructions	ha	0	0	0	0,8
		Sport and recreation constructions	ha	0	0	0	21,9
		Long-distance pipelines, communication and electricity lines	km	24,6	7,7	32,3	253,4
		Dams	km	0	0	0	2,4
	Land use	Inland wetlands	ha	35.729,0	4.220,6	39.949,6	49.787,4
		Shrub and/or herbaceous vegetation association	ha	30.572,1	4.244,3	34.816,4	80.509,6
		Heterogeneous agricultural areas	ha	29.773,1	5.269,2	35.042,3	95.406,7
		Forests	ha	11.712,6	2.829,1	14.541,6	136.251,8
		Other	ha	284,8	147,1	431,9	12.176,7
		Open spaces with little or no vegetation	ha	46,6	1,5	48,1	68,6

\* 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

Access to the portal

