



EMSR861 - AOI31  
Storm Kristin and Flooding in  
Central Portugal and Andalusia, Spain  
ANTEQUERA

Situation as of 15/02/2026 18:17 UTC  
Delineation - Overview map 01



Flooded area  
EO-based 348.1 ha  
Model-based 252.6 ha



Potentially affected  
population  
~ 40

Potentially Affected Built-up and Transportations



Built-Up  
0.6 ha



Road  
4.3 km



Railway  
0.1 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

Administrative Boundaries

Province

Built-Up Area

Residential

Non residential

School, university and  
research buildings

Hospital or institutional  
care buildings

Military

Hydrography

Lake, River

Facilities

Dam

Mining or extraction site

Power plant

Sport and recreation  
constructions

Water or Aquatic  
infrastructure

Dam

Transportation

Highway

Main road

Local road

Track

Railway

Airfield runway

Airfield

Helipad

**Event:** On 26 January 2026 at 18:00, Storm Kristin is reported to have affected central Portugal (Coimbra Region, Leiria Region, Médio Tejo and Beira Baixa sub-regions) and a river overflow is forecast to affect the Guadalquivir River Basin in the provinces of Granada, Jaén and Córdoba (Andalusia, Spain). The event is on-going and spreading, with storm-related damage reported to affect buildings, infrastructure, transport networks and utilities in central Portugal, and flooding expected to affect buildings and infrastructure in the Guadalquivir floodplains, including urban areas, in Andalusia. Copernicus EMS Rapid Mapping is requested to provide storm and flood extent and damage assessment emergency mapping for subsequent analyses, and to improve understanding of the Guadalquivir basin's response to this type of event.

**Data sources and analysis:** Pre-event image: Sentinel-2 (2025) (acquired on 30/08/2025 at 10:56 UTC, resolution 10 m).  
Post-event image: Sentinel-1 (2026) (acquired on 15/02/2026 at 18:17 UTC, resolution 20 m).  
All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

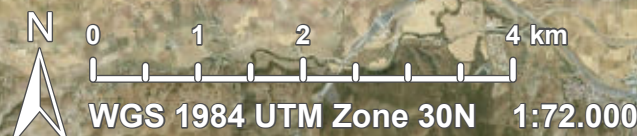
The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.  
The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.  
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 Telespazio Iberica released by e-GEOS on the 04/03/2026.

Details on this activation and service conditions available through the QR code or at the link: <https://mapping.emergency.copernicus.eu/activations/EMSR861>



PROGRAMME OF THE  
EUROPEAN UNION







**EMSR861 - AOI31**  
**Storm Kristin and Flooding in**  
**Central Portugal and Andalusia, Spain**  
**ANTEQUERA**

**Situation as of 15/02/2026 18:17 UTC**  
Delineation - Detail map 02



- | Estimated flood depth (m)                 | Hydrography                        |
|---|------------------------------------|
| Below 0.50                                | Lake, River                        |
| 0.50 to 1.00                              | <b>Facilities</b>                  |
| 1.00 to 2.00                              | Sport and recreation constructions |
| 2.00 to 4.00                              | <b>Transportation</b>              |
| <b>Built-Up Area</b>                      | Main road                          |
| Residential                               | Local road                         |
| Non residential                           | Track                              |
| School, university and research buildings | Railway                            |
|   | Helipad                            |

**Event:** On 26 January 2026 at 18:00, Storm Kristin is reported to have affected central Portugal (Coimbra Region, Leiria Region, Médio Tejo and Beira Baixa sub-regions) and a river overflow is forecast to affect the Guadalquivir River Basin in the provinces of Granada, Jaén and Córdoba (Andalusia, Spain). The event is on-going and spreading, with storm-related damage reported to affect buildings, infrastructure, transport networks and utilities in central Portugal, and flooding expected to affect buildings and infrastructure in the Guadalquivir floodplains, including urban areas, in Andalusia. Copernicus EMS Rapid Mapping is requested to provide storm and flood extent and damage assessment, emergency mapping for subsequent analyses, and to improve understanding of the Guadalquivir basin's response to this type of event.

**Data sources and analysis:** Pre-event image: Sentinel-2 (2025) (acquired on 30/08/2025 at 10:56 UTC, resolution 10 m).  
Post-event image: Sentinel-1 (2026) (acquired on 15/02/2026 at 18:17 UTC, resolution 20 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.  
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 Telespazio Iberica released by e-GEOS on the 04/03/2026.

Details on this activation and service conditions available through the QR code or at the link: <https://mapping.emergency.copernicus.eu/activations/EMSR861>



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	348,1	252,6	600,7
	Maximum of all extents**		ha	348,1	252,6	600,7

			No.	POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants		~ 20	~ 20	~ 40,1	~ 62.000
Assets	Built-up	Residential Buildings	ha	0	0	0	894,0
		Office buildings	ha	0	0	0	65,4
		Wholesale and retail trade buildings	ha	0	0	0	3,2
		Industrial buildings	ha	0	0	0	271,0
		School, university and research buildings	ha	0,5	0,1	0,6	21,9
		Hospital or institutional care buildings	ha	0	0	0	4,0
		Military	ha	0	0	0	2,9
		Cemetery	ha	0	0	0	3,8
	Transportation	Airfield runways	ha	0	0	0	5,0
		Helipad	ha	0	0	0	0,2
		Airfield runways	km	0	0	0	0,2
		Highways	km	0	0,01	0,01	168,8
		Primary Road	km	0,2	0,1	0,3	104,5
		Secondary Road	km	0	0	0	25,4
		Local Road	km	0,4	0,2	0,6	667,6
		Cart Track	km	0,8	2,5	3,3	1.466,0
		Long-distance railways	km	0,04	0,04	0,1	309,1
	Facilities	Settling Basin	ha	0	0	0	3,9
		Dams	ha	0	0,9	0,9	6,7
		Constructions for mining or extraction	ha	0	0	0	55,6
		Power plant constructions	ha	0	0,01	0,01	80,7
		Sport and recreation constructions	ha	0,1	0,01	0,1	81,0
		Long-distance pipelines, communication and electricity lines	km	0,2	0,1	0,3	272,1
		Local pipelines and cables	km	0	0,02	0,02	47,9
		Dams	km	0	0,2	0,2	3,1
	Land use	Arable land	ha	175,2	127,9	303,1	32.879,7
		Inland wetlands	ha	68,2	25,7	94,0	243,5
		Other	ha	49,3	29,2	78,6	5.493,4
		Permanent crops	ha	32,4	15,9	48,3	46.568,0
		Shrub and/or herbaceous vegetation association	ha	16,0	35,6	51,6	12.373,3
		Forests	ha	4,5	6,5	11,0	3.604,7
		Heterogeneous agricultural areas	ha	1,3	1,7	3,0	2.621,1
		Pastures	ha	1,2	1,5	2,7	1.342,0
		Open spaces with little or no vegetation	ha	0	8,5	8,5	420,5

\* 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.

Corine Land Cover (CLC) 2018.

Inset Maps: Natural Earth 2023; HydroLAKES 2016 by HydroSHEDS;

© EuroGeographics, © TurkStat. Source: European Commission – Eurostat/GISCO, 2024.

Digital Elevation Model:

Spain National DTM, CC-BY 4.0 scne.es 2008-2015

