



EMSR861 - AOI29
Storm Kristin and Flooding
in Central Portugal and Andalusia Spain
SAN JUAN DE PUERTO

Situation as of 27/01/2026 18:26 UTC
Delineation - Overview map 01



Flooded area
EO-based 340.9 ha
Model-based 309.0 ha

Potentially affected population
~ Not available

Potentially Affected Built-up and Transportations

Railway
0.1 km

Road
2.3 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

Hydrography

- Lake, River

Facilities

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

Transportation

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

Event: On 26 January 2026 at 18:00, Storm Kristin is reported to have affected central Portugal (Coimbra, Castelo Branco and Peniche) 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 28/11/2025 at 11:14 UTC, resolution 10 m).
Post-event image: Sentinel-1 (2026) (acquired on 27/01/2026 at 18:26 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. 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.



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Delineation - 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
- General Information**
- Area of Interest
- Built-Up Area**
- Residential
 - Non residential
 - School, university and research buildings
- Hydrography**
- Lake, River
- Facilities**
- Long-distance pipelines or lines
 - Sport and recreation constructions
- Transportation**
- Highway
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Map produced by ITHACA 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>



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Situation as of 27/01/2026 18:26 UTC
Delineation - 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
- Hydrography**
- Lake, River
- Transportation**
- Main road
 - Local road
 - Track
 - Railway

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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	340.9	309.0	649.9
	Maximum of all extents**		ha	340.9	309.0	649.9

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	NA	NA	NA	~ 7,600
Assets	Built-up	Residential Buildings	ha	0	0	0	127.1
		Industrial buildings	ha	0	0	0	68.7
		School, university and research buildings	ha	0	0	0	2.5
		Cemetery	ha	0	0	0	0.3
	Transportation	Highways	km	0	0	0	35.7
		Primary Road	km	0	0	0	0.1
		Secondary Road	km	0	0.1	0.1	30.3
		Local Road	km	0	0	0	43.4
		Cart Track	km	0.6	1.6	2.2	109.8
		Long-distance railways	km	0	0.1	0.1	13.6
	Facilities	Power plant constructions	ha	0	0	0	66.6
		Sport and recreation constructions	ha	0	0	0	5.1
		Long-distance pipelines, communication and electricity lines	km	0	0.04	0.04	41.9
	Land use	Arable land	ha	179.3	83.9	263.2	4,254.6
		Coastal wetlands	ha	125.3	135.0	260.3	558.0
		Shrub and/or herbaceous vegetation association	ha	20.3	41.1	61.4	679.1
		Permanent crops	ha	5.4	11.0	16.4	715.4
		Heterogeneous agricultural areas	ha	3.1	2.7	5.8	278.8
		Inland wetlands	ha	2.8	2.8	5.5	75.7
		Other	ha	2.3	12.4	14.7	384.3
		Open spaces with little or no vegetation	ha	1.8	9.8	11.6	27.0
		Forests	ha	0.6	10.4	11.0	162.1
		Pastures	ha	0	0	0	32.7

* 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.
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

