



**EMSR861 - AOI12**  
**Storm Kristin and Flooding in Central Portugal,**  
**Galicia and Andalusia, Spain**  
**JEREZ DE LA FRONTERA**

**Situation as of 08/02/2026 18:25 UTC**  
Delineation MONIT04 - Overview map 01



**Flooded area**  
EO-based 4,993.4 ha  
Model-based 2,814.9 ha

**Potentially affected population**  
~ 1,200

**Potentially Affected Built-up and Transportations**

**Built-Up**  
238.9 ha

**Road**  
54.3 km

**Railway**  
5.8 km

Estimated flood depth (m)	Facilities
Below 0.50	Long-distance pipelines or lines
0.50 to 1.00	Local pipelines or lines
1.00 to 2.00	Water or Aquatic infrastructure
2.00 to 4.00	Dam
Above 4.00	Mining or extraction site
	Water Well
	Power plant
	Sport and recreation constructions
	Dump Site
	Water or Aquatic infrastructure
	Dam
	Transportation
	Highway
	Main road
	Local road
	Track
	Railway
	Airfield runway
	Airfield
	Helipad
	Harbour

**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-2A/B (2025) (acquired on 01/07/2025 at 11:07 UTC, resolution 10.0 m). Post-event image: Sentinel-1 (2026) (acquired on 08/02/2026 at 18:25 UTC, resolution 20.0 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.

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 Planetek Hellas released by e-GEOS on the 09/02/2026.

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	4,993.4	2,814.9	7,808.3
	Maximum of all extents**		ha	4,993.4	2,814.9	7,808.3

			POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI	
Estimated population		Inhabitants	No.	~ 400	~ 800	~ 1,200	~ 390,000
Assets	Built-up	Residential Buildings	ha	0.6	6.2	6.8	2,012.3
		Office buildings	ha	0	0	0	8.7
		Wholesale and retail trade buildings	ha	0	0	0	32.6
		Industrial buildings	ha	177.6	54.3	231.9	1,210.2
		School, university and research buildings	ha	0	0.2	0.2	142.9
		Hospital or institutional care buildings	ha	0	0	0	6.2
		Military	ha	0	0	0	30.4
		Cemetery	ha	0	0	0	6.7
		Transportation	Airfield runways	ha	0	0.7	0.7
	Helipad		ha	0	0	0	0.3
	Harbours		ha	0	0	0	36.7
	Airfield runways		km	0	0	0	9.6
	Highways		km	0.2	5.7	5.9	341.2
	Primary Road		km	0	0.1	0.1	166.3
	Secondary Road		km	0	0.3	0.3	191.5
	Local Road		km	2.7	10.6	13.3	1,830.7
	Cart Track		km	7.2	27.5	34.8	1,333.8
	Harbours		km	0	0	0	3.2
	Long-distance railways		km	0	5.8	5.8	168.1
	Facilities	Settling Basin	ha	0	0.2	0.2	18.1
Breakwater		ha	0	0	0	0.3	
Dams		ha	0	0	0	0.4	
Constructions for mining or extraction		ha	0	0	0	144.1	
Power plant constructions		ha	2.4	1.4	3.8	615.8	
Sport and recreation constructions		ha	0.6	1.2	1.7	712.8	
Other civil engineering works not elsewhere classified		ha	0	0	0	14.1	
Long-distance pipelines, communication and electricity lines		km	18.1	19.1	37.1	421.4	
Local pipelines and cables		km	0.2	0.1	0.4	62.0	
Breakwater		km	0	0.1	0.1	4.5	
Dams		km	0	0	0	0.7	
Land use		Arable land	ha	2,635.1	1,364.3	3,999.3	75,523.4
		Coastal wetlands	ha	2,025.6	819.5	2,845.2	4,790.4
		Other	ha	266.2	345.3	611.5	17,584.2
		Heterogeneous agricultural areas	ha	14.1	17.0	31.1	3,796.0
	Permanent crops	ha	11.8	73.5	85.3	4,836.1	
	Shrub and/or herbaceous vegetation association	ha	11.5	43.0	54.5	5,188.6	
	Pastures	ha	10.2	49.9	60.1	2,439.0	
	Forests	ha	10.2	72.1	82.3	4,321.0	
	Inland wetlands	ha	8.7	14.7	23.4	251.0	
	Open spaces with little or no vegetation	ha	0	15.6	15.6	189.3	

\* 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.  
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:  
FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30  
Digital Elevation Model (DEM) (Airbus, 2020).

