



EMSR861 - AOI12
Storm Kristin and Flooding in Central Portugal,
Galia and Andalusia, Spain
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Situation as of 09/02/2026 06:26 UTC
Delineation MONIT05 - Overview map 01



Flooded area
EO-based 5,920.2 ha
Model-based 3,173.7 ha

Potentially affected population
~ 1,700

Potentially Affected Built-up and Transportations

Built-Up
250.4 ha

Road
95.6 km

Railway
6.1 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
	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 09/02/2026 at 06:26 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	5,920.2	3,173.7	9,093.8
	Maximum of all extents**		ha	5,920.2	3,173.7	9,093.8

			POTENTIALLY AFFECTED			TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population	Inhabitants	No.	~ 700	~ 1,000	~ 1,700	~ 390,000	
Assets	Built-up	Residential Buildings	ha	2.7	9.4	12.1	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	210.4	27.8	238.2	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	166.7
		Helipad	ha	0	0	0	0.3
		Harbours	ha	0	0	0	36.7
		Airfield runways	km	0	0	0	9.6
		Highways	km	3.2	14.4	17.6	341.2
		Primary Road	km	0	0.1	0.1	166.3
		Secondary Road	km	0.4	0.9	1.3	191.5
		Local Road	km	6.5	10.1	16.6	1,830.7
		Cart Track	km	17.5	42.6	60.1	1,333.8
		Harbours	km	0	0	0	3.2
	Facilities	Long-distance railways	km	0.1	6.1	6.1	168.1
		Settling Basin	ha	0	0.4	0.4	18.1
		Breakwater	ha	0	0	0	0.3
		Dams	ha	0	0.00	0.00	0.4
		Constructions for mining or extraction	ha	0	0	0	144.1
		Power plant constructions	ha	3.7	4.8	8.5	615.8
		Sport and recreation constructions	ha	0.6	1.4	2.1	712.8
		Other civil engineering works not elsewhere classified	ha	0	0.5	0.5	14.1
		Long-distance pipelines, communication and electricity lines	km	22.9	16.4	39.3	421.4
		Local pipelines and cables	km	0.9	1.3	2.3	62.0
		Breakwater	km	0	0.1	0.1	4.5
		Dams	km	0	0.1	0.1	0.7
	Land use	Arable land	ha	3,168.9	1,573.9	4,742.7	75,523.4
		Coastal wetlands	ha	2,316.6	887.5	3,204.0	4,790.4
		Other	ha	327.4	357.0	684.4	17,584.2
		Pastures	ha	28.7	71.8	100.5	2,439.0
		Heterogeneous agricultural areas	ha	25.3	24.1	49.4	3,796.0
		Permanent crops	ha	20.6	84.4	105.0	4,836.1
		Forests	ha	12.1	104.9	117.1	4,321.0
		Shrub and/or herbaceous vegetation association	ha	11.2	36.3	47.5	5,188.6
		Inland wetlands	ha	9.4	16.2	25.6	251.0
		Open spaces with little or no vegetation	ha	0	17.5	17.5	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).

