



EMSR861 - AOI26
Storm Kristin and Flooding in Central
Portugal, Galicia and Andalusia Spain
CORIA

Situation as of 15/02/2026 06:26 UTC
Delineation MONIT02 - Overview map 01



Flooded area
EO-based 96.6 ha
Model-based 230.7 ha



Potentially affected
population
~ 40

Potentially Affected Built-up and Transportations



Built-Up
3.2 ha



Road
2.4 km

Estimated flood depth (m)	Hydrography
Below 0.50	Lake, River
0.50 to 1.00	Facilities
1.00 to 2.00	Long-distance pipelines or lines
2.00 to 4.00	Local pipelines or lines
Above 4.00	Mining or extraction site
General Information	Power plant
Area of Interest	Sport and recreation constructions
Built-Up Area	Water or Aquatic infrastructure
Residential	Transportation
Non residential	Highway
School, university and research buildings	Main road
Hospital or institutional care buildings	Local road
	Track

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 Guadaluquivir 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 Guadaluquivir 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 Guadaluquivir basin's response to this type of event.

Data sources and analysis:
Pre-event image: Sentinel-2A/B (2025) (acquired on 30/09/2025 at 11:21 UTC, resolution 10.0 m). This image is used as background image.
Post-event image: Sentinel-1 (2026) (acquired on 15/02/2026 at 06:26 UTC, resolution 20.0 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 CLS released by SERTIT on the 16/02/2026.

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



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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	96,6	230,7	327,2
	Maximum of all extents**		ha	96,6	230,7	327,2

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	~ 20	~ 20	~ 40	~ 10 000
Assets	Built-up	Residential Buildings	ha	0,4	0,4	0,8	144,6
		Industrial buildings	ha	0	0	0	41,1
		School, university and research buildings	ha	0	0	0	0,02
		Sports halls	ha	0	2,4	2,4	31,5
		Hospital or institutional care buildings	ha	0	0	0	0,9
		Cemetery	ha	0	0	0	0,2
	Transportation	Highways	km	0	0	0	21,4
		Primary Road	km	0	0,1	0,1	25,4
		Secondary Road	km	0	0	0	15,5
		Local Road	km	0	0,4	0,4	93,8
		Cart Track	km	0,5	1,4	1,9	144,3
	Facilities	Settling Basin	ha	0	0	0	2,4
		Constructions for mining or extraction	ha	10,4	8,4	18,8	22,7
		Power plant constructions	ha	0	0	0	8,6
		Sport and recreation constructions	ha	0	2,1	2,1	28,3
		Long-distance pipelines, communication and electricity lines	km	0	0,01	0,01	25,8
		Local pipelines and cables	km	0,3	0,5	0,8	25,9
	Land use	Arable land	ha	68,5	95,3	163,8	6 786,0
		Other	ha	15,6	102,7	118,3	808,0
		Shrub and/or herbaceous vegetation association	ha	12,4	29,5	41,8	1 405,3
		Permanent crops	ha	0	0,3	0,3	243,5
		Pastures	ha	0	0	0	25,3
		Heterogeneous agricultural areas	ha	0	3,0	3,0	922,3
		Forests	ha	0	0	0	128,5
		Open spaces with little or no vegetation	ha	0	0	0	6,3

* 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).

Access to the portal

