



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

Situation as of 28/01/2026 18:19 UTC
Delineation - Overview map 01



Flooded area
EO-based 70.4 ha
Model-based 204.8 ha



Potentially affected
population
~ 40

Potentially Affected Built-up and Transportations



Road
2.6 km



Built-Up
3.7 ha

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

Event: On 26 January 2026 at 18:00, a river overflow is forecast to affect the Guadalquivir river basin in the provinces of Granada, Jaén and Córdoba (Andalusia, Spain). The event is forecast and increasing; the main rain front has already passed, but more rainfall is expected over the next 48 hours, which is expected to maintain and increase river water levels, with flooding affecting buildings and infrastructure in the floodplains, including urban areas. Copernicus EMS Rapid Mapping is requested to provide emergency maps of the extent of the flooding for further analysis and to improve understanding of the basin's response.

Data sources and analysis:
Pre-event image: Sentinel-2A/B (2025) (acquired on 30/09/2025 at 11:21 UTC, resolution 10.0 m).
Post-event image: Sentinel-1 (2026) (acquired on 28/01/2026 at 18:19 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 CLS released by SERTIT on the 13/02/2026.

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



PROGRAMME OF THE
EUROPEAN UNION



Copernicus
European eyes on Earth

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	70.4	204.8	275.2
	Maximum of all extents**		ha	70.4	204.8	275.2

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	~ 20	~ 20	~ 40	~ 10 000
Assets	Built-up	Residential Buildings	ha	0.3	0.3	0.7	144.6
		Industrial buildings	ha	0	0	0	41.1
		School, university and research buildings	ha	0	0	0	0.02
		Sports halls	ha	0.3	2.7	3.0	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	0.01	0.01	25.4
		Secondary Road	km	0.01	0.1	0.1	15.5
		Local Road	km	0.1	0.6	0.6	93.8
		Cart Track	km	0.3	1.5	1.9	144.3
	Facilities	Settling Basin	ha	0	0	0	2.4
		Constructions for mining or extraction	ha	10.1	8.6	18.7	22.7
		Power plant constructions	ha	0	0	0	8.6
		Sport and recreation constructions	ha	0.7	3.1	3.8	28.3
		Long-distance pipelines, communication and electricity lines	km	0.1	0.02	0.1	25.8
		Local pipelines and cables	km	0.1	0.5	0.5	25.9
	Land use	Arable land	ha	46.0	88.8	134.7	6 786.0
		Other	ha	15.2	91.0	106.1	808.0
		Shrub and/or herbaceous vegetation association	ha	9.2	24.3	33.5	1 405.3
		Heterogeneous agricultural areas	ha	0.04	0.5	0.5	922.3
		Permanent crops	ha	0	0.3	0.3	243.5
		Pastures	ha	0	0	0	25.3
		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/>
© 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.

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).

