



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

Situation as of 03/02/2026 18:17 UTC

Delineation MONIT02 - Overview map 01



Flooded area
EO-based 2,860.9 ha
Model-based 4,625.0 ha



Potentially affected
population
~ 1,850

Potentially Affected Built-up and Transportations



Built-Up
250.0 ha



Road
73.5 km



Railway
3.2 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

Administrative Boundaries

Province

Built-Up Area

Residential

Non residential

School, university and
research buildings

Hospital or institutional
care buildings

Military

Hydrography

Lake, River

Facilities

Long-distance pipelines
or lines

Local pipelines or lines

Water or Aquatic
infrastructure

Dam

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). This image is used as background image. Post-event image: Sentinel-1 (2026) (acquired on 03/02/2026 at 18:17 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 GAF AG released by e-GEOS on the 05/02/2026.

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



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 | 2,860.9 | | 4,625.0 | 7,485.9 |
| | Maximum of all extents** | | ha | 2,860.9 | | 4,625.0 | 7,485.9 |

| | | | | POTENTIALLY AFFECTED | | TOTAL POTENTIALLY AFFECTED | Total in AOI |
|----------------------|----------------|--|-----|----------------------|---------|----------------------------|--------------|
| Estimated population | | Inhabitants | No. | ~ 550 | ~ 1,300 | ~ 1,850 | ~ 390,000 |
| Assets | Built-up | Residential Buildings | ha | 1.7 | 19.3 | 21.1 | 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 | 0 | 227.7 | 227.7 | 1,210.2 |
| | | School, university and research buildings | ha | 0.01 | 1.3 | 1.3 | 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 | 0.3 | 0.5 | 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 | 1.1 | 9.3 | 10.4 | 341.2 |
| | | Primary Road | km | 0.4 | 0.7 | 1.1 | 166.3 |
| | | Secondary Road | km | 0.6 | 1.4 | 2.0 | 191.5 |
| | | Local Road | km | 3.5 | 11.9 | 15.4 | 1,830.7 |
| | | Cart Track | km | 13.6 | 31.0 | 44.7 | 1,333.8 |
| | | Harbours | km | 0 | 0 | 0 | 3.2 |
| | | Long-distance railways | km | 0.05 | 3.1 | 3.2 | 168.1 |
| | | | | | | | |
| | | Sancting Basin | ha | 0 | 0.2 | 0.2 | 18.1 |
| | | Breakwater | ha | 0 | 0 | 0 | 0.3 |
| | Facilities | Dams | ha | 0.2 | 0.1 | 0.3 | 0.4 |
| | | Constructions for mining or extraction | ha | 0.4 | 0.4 | 0.9 | 144.1 |
| | | Power plant constructions | ha | 5.4 | 17.7 | 23.1 | 615.8 |
| | | Sport and recreation constructions | ha | 0.3 | 2.2 | 2.5 | 712.8 |
| | | Other civil engineering works not elsewhere classified | ha | 0 | 0 | 0 | 14.1 |
| | | Long-distance pipelines, communication and electricity lines | km | 8.0 | 20.8 | 28.8 | 421.4 |
| | | Local pipelines and cables | km | 0.7 | 3.3 | 4.0 | 62.0 |
| | | Breakwater | km | 0 | 0.2 | 0.2 | 4.5 |
| | | Dams | km | 0.1 | 0.4 | 0.5 | 0.7 |
| | | | | | | | |
| | Land use | Arable land | ha | 1,998.1 | 1,970.3 | 3,968.4 | 75,523.4 |
| | | Coastal wetlands | ha | 384.0 | 1,589.1 | 1,973.1 | 4,790.4 |
| | | Other | ha | 288.8 | 492.5 | 791.3 | 17,584.2 |
| | | Forests | ha | 48.7 | 176.8 | 225.5 | 4,321.0 |
| | | Open spaces with little or no vegetation | ha | 41.9 | 6.3 | 48.2 | 189.3 |
| | | Pastures | ha | 28.6 | 83.2 | 111.8 | 2,439.0 |
| | | Shrub and/or herbaceous vegetation association | ha | 24.7 | 73.6 | 98.4 | 5,188.6 |
| | | Heterogeneous agricultural areas | ha | 21.8 | 61.7 | 83.6 | 3,796.0 |
| | | Permanent crops | ha | 9.5 | 82.7 | 92.2 | 4,836.1 |
| | | Inland wetlands | ha | 4.8 | 88.7 | 93.5 | 251.0 |

* 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).

Access to the portal

