



EMSR861 - AOI32
Storm Kristin and Flooding in Central Portugal,
G Galicia and Andalusia, Spain
CADIZ

Situation as of 08/02/2026 18:26 UTC
Delineation - Overview map 01



Flooded area
EO-based 971.1 ha
Model-based 634.7 ha

Potentially affected population
~ 1,050

Potentially Affected Built-up and Transportations

Built-Up
44.3 ha

Road
27.6 km

Railway
0.4 km

Estimated flood depth (m)

- Below 0.50
- 0.50 to 1.00
- 1.00 to 2.00
- 2.00 to 4.00

General Information

- Area of Interest
- Detail map

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

Transportation

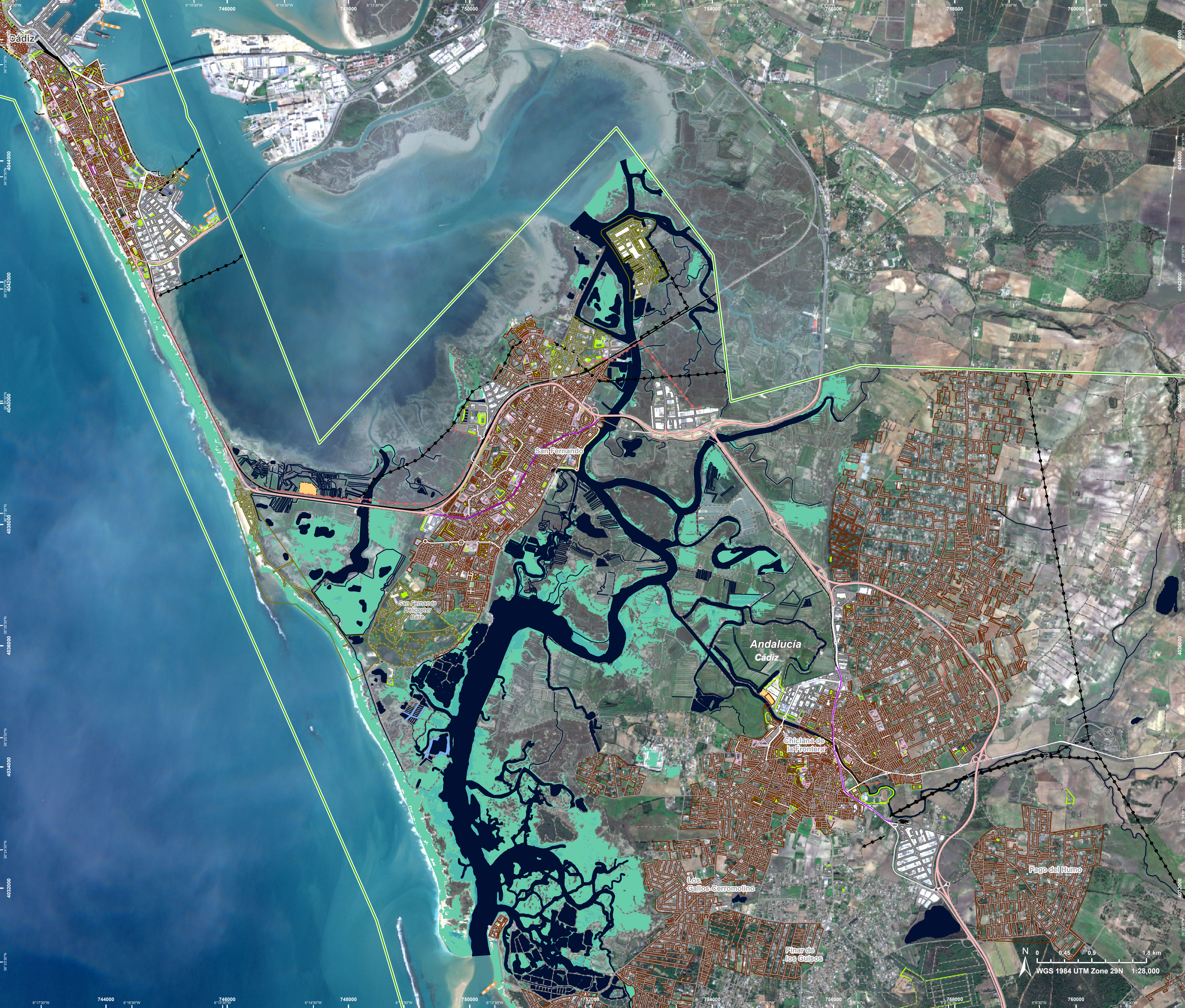
- Mining or extraction site
- Sport and recreation constructions
- Water or Aquatic infrastructure
- Dam
- Highway
- Main road
- Local road
- Track
- Railway
- Tramway
- Airfield runway
- Navigable canal
- Heliport
- Helipad
- Harbour
- Water or Aquatic infrastructure

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-2 (2026) (acquired on 10/01/2026 at 11:13 UTC, resolution 10 m). This image is used as background image.
Post-event image: Sentinel-1 (2026) (acquired on 28/02/2026 at 18:26 UTC, resolution 20 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.



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Situation as of 08/02/2026 18:26 UTC
Delineation - Detail map 02



- Estimated flood depth (m)**
- Below 0.50
 - 0.50 to 1.00
 - 1.00 to 2.00
 - 2.00 to 4.00
- General Information**
- Area of Interest
- 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
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Consequences within the AOI

			Unit of measurement	LATEST IMPACT		
				Imagery-based observation*	Model-based output	Imagery- and Model-based results
Crisis information	Flooded area		ha	971.1	634.7	1,605.8
	Maximum of all extents**		ha	971.1	634.7	1,605.8

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	~ 550	~ 500	~ 1,050	~ 300,000
Assets	Built-up	Residential Buildings	ha	0.1	1.0	1.1	3,205.8
		Office buildings	ha	0	0	0	8.4
		Wholesale and retail trade buildings	ha	0	0	0	20.1
		Industrial buildings	ha	0.1	0.1	0.2	264.0
		School, university and research buildings	ha	0	0	0	52.8
		Hospital or institutional care buildings	ha	0	0	0	1.1
		Military	ha	31.7	11.4	43.1	347.9
		Cemetery	ha	0	0	0	7.3
	Transportation	Navigable canals	ha	0	0	0	2.8
		Heliprot	ha	0	0	0	6.7
		Helipad	ha	0	0	0	0.4
		Harbours	ha	0	0	0	5.2
		Airfield runways	km	0	0	0	0.3
		Navigable canals	km	0.1	1.7	1.8	3.6
		Highways	km	0.7	0.3	1.0	123.4
		Primary Road	km	0.1	0.1	0.1	34.2
		Secondary Road	km	0	0	0	49.2
		Local Road	km	2.8	1.9	4.7	1,501.9
		Cart Track	km	9.0	12.8	21.8	660.0
		Railway Yard	km	0	0	0	1.8
		Tramway	km	0	0	0	11.3
		Harbours	km	0	0.01	0.01	1.6
		Long-distance railways	km	0.1	0.4	0.4	55.5
	Facilities	Settling Basin	ha	0	0	0	10.4
		Breakwater	ha	0.1	0.1	0.2	7.7
		Dams	ha	0	0	0	0.2
		Constructions for mining or extraction	ha	0	0	0	23.8
		Sport and recreation constructions	ha	0.05	0.2	0.3	619.7
		Long-distance pipelines, communication and electricity lines	km	0.1	0.5	0.7	57.3
		Local pipelines and cables	km	0.03	0.2	0.2	16.9
		Breakwater	km	0.2	0.1	0.3	5.3
	Land use	Coastal wetlands	ha	698.9	554.7	1,253.6	5,118.6
		Open spaces with little or no vegetation	ha	129.5	17.2	146.7	522.6
		Other	ha	118.1	49.5	167.5	13,998.6
		Shrub and/or herbaceous vegetation association	ha	18.3	8.5	26.8	3,024.7
		Arable land	ha	3.2	3.4	6.6	11,558.6
		Pastures	ha	3.1	0.9	4.1	2,691.2
		Forests	ha	0.1	0.4	0.4	3,567.5
		Permanent crops	ha	0	0	0	87.8
		Heterogeneous agricultural areas	ha	0	0.1	0.1	2,598.4
		Inland wetlands	ha	0	0	0	44.5

* 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.

Access to 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;

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Digital Elevation Model:

Spain National DTM, CC-BY 4.0 scne.es 2008-2015