



Situation as of 06/11/2024 06:10 UTC

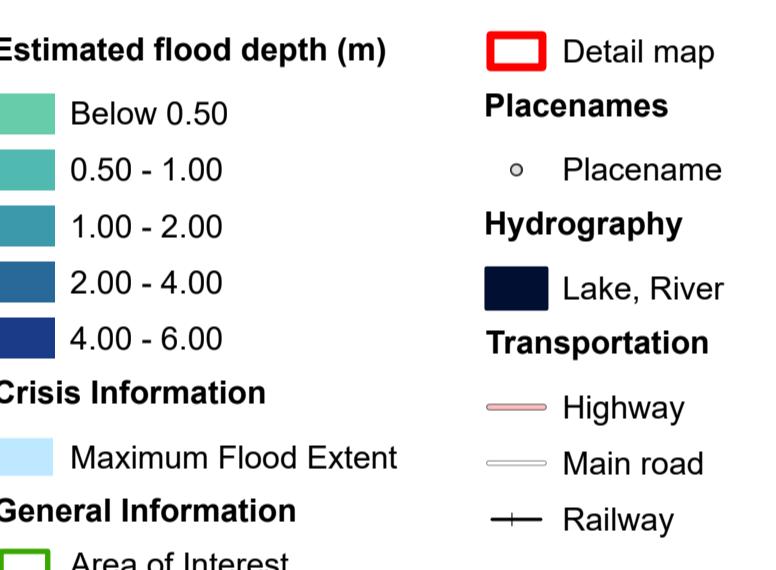
elineation MONIT03 - Overview map 01

Catalunya /

A map of the Aragon region in Spain, highlighting the course of three major rivers: the Ebro (flowing generally eastward), the Jalon (flowing southward), and the Tajo (flowing westward). The map also shows the provincial boundaries of Aragon, the town of Tarragona, and parts of adjacent regions like Catalonia and Valencia.



#### Potentially Affected Built-up and Transportations



## *Reference layers available in the vector package*

**Event:** On 29 October 2024 at 14:30 UTC, an extraordinary rainfall event hit the Valencia region. High water levels in rivers caused flooding in the Júcar Alta, Horta, La Plana de Utiel and Letur river. On 31 October 2024, extraordinary precipitation caused flooding in the Castellon Province area. The CERNICUS EMS Rapid Mapping is requested to provide emergency mapping of flood extent, Monitoring and classification damages emergency mapping.

**sources and analysis:** Pre-event image: Sentinel-2B (2024) (acquired 2/08/2024 at 10:46 UTC, resolution 10 m). This image is used as ground image.

-event image: Sentinel-1A (2024) (acquired on 06/11/2024 at 06:10, resolution 20.0 m).  
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The thematic layer has been derived from post-event satellite images using a

flood depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The maximum flood extent corresponds to the flood observed in all previous products (cumulative analysis). The flooded area corresponds to the water observed in the most

Produced by SERTIT released by e-GEOS on the  
2024.

on this activation and service conditions available  
in the QR code or at the link: <https://mapping.emergency.copernicus.eu/EMSR773>





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Delineation MONIT03 - Detail map 02



Estimated flood depth (m)	
Below 0.50	General Information
0.50 - 1.00	Area of Interest
1.00 - 2.00	Placenames
2.00 - 4.00	○ Placename
4.00 - 6.00	Hydrography
	■ Lake, River
	Transportation
	Maximum Flood Extent
	Highway
	Main road

Reference layers available in the vector package

**Event:** On 29 October 2024 at 14:30 UTC, an extraordinary rainfall event affected the Valencia region. High water levels in rivers caused flooding in Ribera Alta, Horta, La Plana de Utiel and Letur river. On 31 October 2024, extraordinary precipitation caused flooding in the Castellón Province area. Copernicus EMS Rapid Mapping is requested to provide emergency mapping of flood extent, Monitoring and classification damages emergency mapping.

**Data sources and analysis:** Pre-event image: Sentinel-2B (2024) (acquired on 12/08/2024 at 10:46 UTC, resolution 10 m). This image is used as background image.

Post-event image: Sentinel-1A (2024) (acquired on 06/11/2024 at 06:10 UTC, resolution 20.0 m). Image 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 flood depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The maximum flood extent corresponds to the flood observed in all previous products (cumulative analysis). The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

Map produced by SERTIT released by e-GEOS on the 06/11/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR773>



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Consequences within the AOI		Unit of measurement	Affected	Total in AOI
Flooded area*		ha		7 048.4
Maximum flood extent**		ha		17 741.5
Estimated population		Number of inhabitants	~ 750	2.500 Mio.
Built-up	Residential Buildings Office buildings Wholesale and retail trade buildings Industrial buildings School, university and research buildings Hospital or institutional care buildings Military Cemetery	ha	0.8 0 0 1.3 0 0 0 0	17 597.4 324.6 101.1 7 380.0 593.2 24.7 1 370.3 183.1
Transportation	Airfield runways Heliport Harbours Airfield runways Highways Primary Road Secondary Road Local Road Cart Track Railway Yard Tramway Subway Harbours Long-distance railways	ha ha ha km km km km km km km km km km km km	0 0 0 0 0.1 1.0 2.1 21.3 188.0 0 0 0 0 0.01	549.1 2.6 1 252.6 35.1 1 760.9 861.9 1 619.8 13 534.9 24 613.2 19.4 53.6 202.5 17.9 927.5
Facilities	Settling Basin Breakwater Dams Constructions for mining or extraction Power plant constructions Sport and recreation constructions Other civil engineering works not elsewhere classified Long-distance pipelines, communication and electricity lines Local pipelines and cables Breakwater Dams	ha ha ha ha ha ha ha km km km km km	0.01 0 0 4.7 0 0 0 6.9 14.9 0 0	108.0 8.3 27.9 1 694.2 236.1 2 880.4 32.3 2 171.0 502.0 1.5 8.3
Land use	Arable land Other Heterogeneous agricultural areas Shrub and/or herbaceous vegetation association Permanent crops Coastal wetlands Forests Inland wetlands Pastures Open spaces with little or no vegetation	ha ha ha ha ha ha ha ha ha ha	6 960.8 26.9 20.6 17.2 15.3 5.4 1.9 0.4 0 0	56 341.7 121 851.7 94 393.8 381 611.9 268 222.1 734.1 199 723.2 572.9 7 078.1 10 278.8

\* Corresponds to the water observed in the most recent satellite imagery, excluding permanent water

\*\* Corresponds to the water observed in all previous products and in all crisis imagery, excluding permanent water (cumulative analysis).

#### Disclaimer:

Full disclaimer and other helpful information available in the online manual:  
<https://emergency.copernicus.eu/mapping/ems/online-manual-rapid-mapping-products>  
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#### Data Access:

All data displayed on the map(s), as well as the Physiography and Land Use - Land Cover layers, 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 (2024), Wikimapia.org, GeoNames 2015, Corine Land Cover (CLC) 2018, EuroBoundaryMap 2017 ©EuroGeographics.  
 Inset Maps: JRC 2013, GISCO 2010 © EuroGeographics, Natural Earth 2012, CCM River DB © EUJRC2007, GeoNames 2015.  
 Digital Elevation Model: FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus,2020).



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