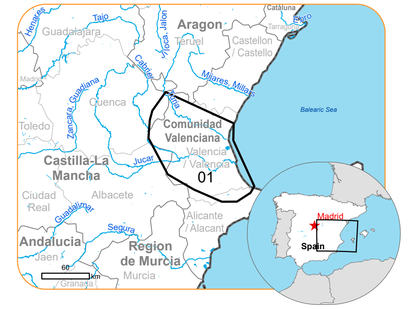
GLIDE number: 2024-000199 GDACS ID: FL 1102983
Int. Charter Act. ID: 1054 Product version: 1

EMSR773 - AOI01
Flood In Valencia Region, Spain
VALENCIA PROVINCE

Situation as of 05/11/2024 10:52 UTC

Delineation MONIT02 - Overview map 01



Flood trace 3,768.2 ha
Flooded area 12,443.2 ha

Potentially affected population
~ 3,600

Potentially Affected Built-up and Transportations

Road
557.0 km

Built-Up
32.8 ha

Estimated flood depth (m)
- Below 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- 2.00 - 4.00
- 4.00 - 6.00

Crisis Information
- Maximum Flood Extent
- Flood trace

General Information
- Area of Interest
- Detail map
- Not Analysed

Placenames
- Placename

Hydrography
- Lake, River

Transportation
- Highway
- Main road
- Railway

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 Castellon 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-2A (2024) (acquired on 05/11/2024 at 10:52 UTC, resolution 10 m).

The thematic layer has been derived from post-event satellite image using a semi-automatic approach.

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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Copernicus Europe's eyes on Earth

N
0 3.75 7.5 15 km
WGS 1984 UTM Zone 30N 1:244 000

GLIDE number: 2024-000199
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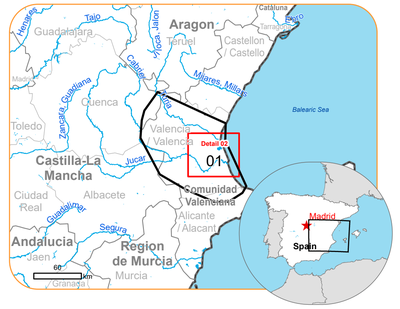
EMSR773 - AOI01
Flood In Valencia Region, Spain
VALENCIA PROVINCE

Situation as of 05/11/2024 10:52 UTC

Delineation MONIT02 - Detail map 02



Estimated flood depth (m)

- Below 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- 2.00 - 4.00
- 4.00 - 6.00

Crisis Information

- Maximum Flood Extent
- Flood trace

General Information

- Area of Interest
- Not Analysed

Placenames

- Placename

Hydrography

- Lake, River

Transportation

- Highway
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Reference layers available in the vector package

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Image provided under COPERNICUS by the European Union and ESA, all rights reserved.

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

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EMSR773 AOI: 01 Valencia province Delineation

Consequences within the AOI				
	Unit of measurement		Affected	Total in AOI
Flood trace		ha		3 768.2
Flooded area*		ha		12 443.2
Maximum flood extent**		ha		17 635.7
Estimated population	Number of inhabitants		~ 3 600	2.500 Mio.
Built-up	Residential Buildings	ha	10.6	17 597.4
	Office buildings	ha	1.1	324.6
	Wholesale and retail trade buildings	ha	0	101.1
	Industrial buildings	ha	21.0	7 380.0
	School, university and research buildings	ha	0	593.2
	Hospital or institutional care buildings	ha	0	24.7
	Military	ha	0	1 370.3
	Cemetery	ha	0.1	183.1
Transportation	Airfield runways	ha	0	549.1
	Helipad	ha	0	2.6
	Harbours	ha	0	1 252.6
	Airfield runways	km	1.0	35.1
	Highways	km	15.4	1 760.9
	Primary Road	km	10.4	861.9
	Secondary Road	km	8.6	1 619.8
	Local Road	km	94.8	13 534.9
	Cart Track	km	427.7	24 613.2
	Railway Yard	km	0	19.4
	Tramway	km	0	53.6
	Subway	km	0	202.5
	Harbours	km	0	17.9
	Long-distance railways	km	15.6	927.5
Facilities	Settling Basin	ha	1.7	108.0
	Breakwater	ha	0	8.3
	Dams	ha	0	27.9
	Constructions for mining or extraction	ha	9.2	1 694.2
	Power plant constructions	ha	0	236.1
	Sport and recreation constructions	ha	1.0	2 880.4
	Other civil engineering works not elsewhere classified	ha	0	32.3
	Long-distance pipelines, communication and electricity lines	km	33.2	2 171.0
	Local pipelines and cables	km	20.2	502.0
	Breakwater	km	0	1.5
	Dams	km	0.04	8.3
Land use	Arable land	ha	15 114.6	56 341.7
	Permanent crops	ha	591.0	268 222.1
	Other	ha	181.6	121 851.7
	Shrub and/or herbaceous vegetation association	ha	120.0	381 611.9
	Heterogeneous agricultural areas	ha	87.2	94 393.8
	Coastal wetlands	ha	65.8	734.1
	Forests	ha	28.5	199 723.2
	Inland wetlands	ha	10.9	572.9
	Open spaces with little or no vegetation	ha	9.3	10 278.8
	Pastures	ha	2.5	7 078.1

* 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

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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