GLIDE number: 2024-000199
Int. Charter Act. ID: 1054

GDACS ID: FL 1102983
Product version: 1

EMSR773 - AOI01
Flood in Spain
VALENCIA PROVINCE

Situation as of 03/11/2024 01:51 UTC

Delineation MONIT01 - Overview map 01

Flooded area
7831.5 ha

Potentially affected population
~ 2 100

Potentially Affected Built-up and Transportations

Road
245.2 km

Built-up
23.5 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

General Information
- Area of Interest
- Detail map
- Image Footprint
- 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).
Image provided under COPERNICUS by the European Union and ESA, all rights reserved.

Post-event image: IE00 © copyright owned by ICEYE OY (acquired on 03/11/2024 at 01:51 UTC, resolution 2.5 m).
Image provided by the International Charter (call ID 1054), 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, where optical imagery was not usable.

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 03/11/2024.

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

PROGRAMME OF THE EUROPEAN UNION

Detail 02

Valencia

Torrent

Candia

ICEYE OY (03/11/2024 01:51 UTC)

N

0 3.75 7.5 15 km

WGS 1984 UTM Zone 30N 1:244 000

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EMSR773 - AOI01
Flood in Spain
VALENCIA PROVINCE

Situation as of 03/11/2024 01:51 UTC

Delineation MONIT01 - 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

General Information
- Area of Interest
- Image Footprint
- Not Analysed

Placenames
- Placename

Hydrography
- Lake, River

Transportation
- Highway
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EMSR773 AOI: 01 Valencia province Delineation

Consequences within the AOI				
	Unit of measurement		Affected	Total in AOI
Flooded area*		ha		7 831.5
Maximum flood extent**		ha		15 847.5
Estimated population	Number of inhabitants		~ 2 100	2.500 Mio.
Built-up	Residential Buildings	ha	5.6	17 597.4
	Office buildings	ha	0	324.6
	Wholesale and retail trade buildings	ha	0	101.1
	Industrial buildings	ha	17.9	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	183.1
Transportation	Airfield runways	ha	0	549.1
	Helipad	ha	0	2.6
	Harbours	ha	0	1 252.6
	Airfield runways	km	0.2	35.1
	Highways	km	2.0	1 760.9
	Primary Road	km	2.3	861.9
	Secondary Road	km	3.5	1 619.8
	Local Road	km	24.8	13 534.9
	Cart Track	km	212.6	24 613.2
	Railway Yard	km	0	19.4
	Tramway	km	0	53.6
	Subway	km	0.3	202.5
	Harbours	km	0	17.9
	Long-distance railways	km	0.2	927.5
Facilities	Settling Basin	ha	0.2	108.0
	Breakwater	ha	0	8.3
	Dams	ha	0	27.9
	Constructions for mining or extraction	ha	8.4	1 694.2
	Power plant constructions	ha	0	236.1
	Sport and recreation constructions	ha	1.6	2 880.4
	Other civil engineering works not elsewhere classified	ha	0	32.3
	Long-distance pipelines, communication and electricity lines	km	12.3	2 171.0
	Local pipelines and cables	km	18.2	502.0
	Breakwater	km	0	1.5
	Dams	km	0.2	8.3
Land use	Arable land	ha	7 377.6	56 341.7
	Other	ha	207.7	121 851.7
	Shrub and/or herbaceous vegetation association	ha	57.6	381 611.9
	Permanent crops	ha	50.7	268 222.1
	Coastal wetlands	ha	45.6	734.1
	Heterogeneous agricultural areas	ha	43.1	94 393.8
	Open spaces with little or no vegetation	ha	37.4	10 278.8
	Pastures	ha	7.8	7 078.1
	Inland wetlands	ha	2.9	572.9
	Forests	ha	1.2	199 723.2

* 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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