

**EMSR773 - AOI36**
Flood in Spain
PATERNA

Situation as of 18/11/2024 12:16 UTC
Grading - Overview map 01





**Flooded area 13.4 ha**
Flood trace 44.6 ha

**Potentially affected population ~ 300**




Affected Transportations

**Road**
4.7 km











Crisis Information

-  Flooded Area
-  Flood trace


Facilities Grading

-  Long-distance pipeline or line, Possibly damaged
-  Local pipeline or line, Possibly damaged
-  Destroyed



Transportation Grading

-  Road, Destroyed
-  Road, Damaged
-  Road, Possibly damaged
-  Bridge, elevated highway, tunnel and subway, Possibly damaged
-  Highway, No visible damage
-  Main road, No visible damage
-  Local road, No visible damage
-  Track, No visible damage
-  Airfield runway, No visible damage
-  Subway, No visible damage


Airfield and Heliport, No visible damage

- 


General Information

-  Area of Interest
-  Detail map


Administrative Boundaries

-  Municipality

Placenames

-  Placename

Hydrography

-  Lake, River

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: ESRI World Imagery © DigitalGlobe (acquired on 25/08/2023, resolution 0.6 m).

Post-event image: Aerial data @ European Commission (acquired on 18/11/2024 12:16 UTC, resolution 0.2 m) provided under Copernicus by CGR, Compagnia Generale Ripreseaeree (S.P.A.), all rights reserved
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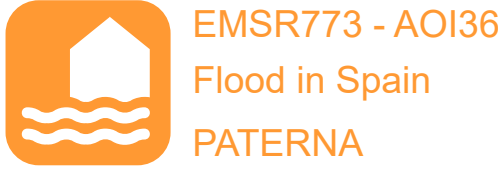
The thematic layer has been derived from post-event satellite image using a semi-automatic approach.

This analysis has been supplemented by the social media.

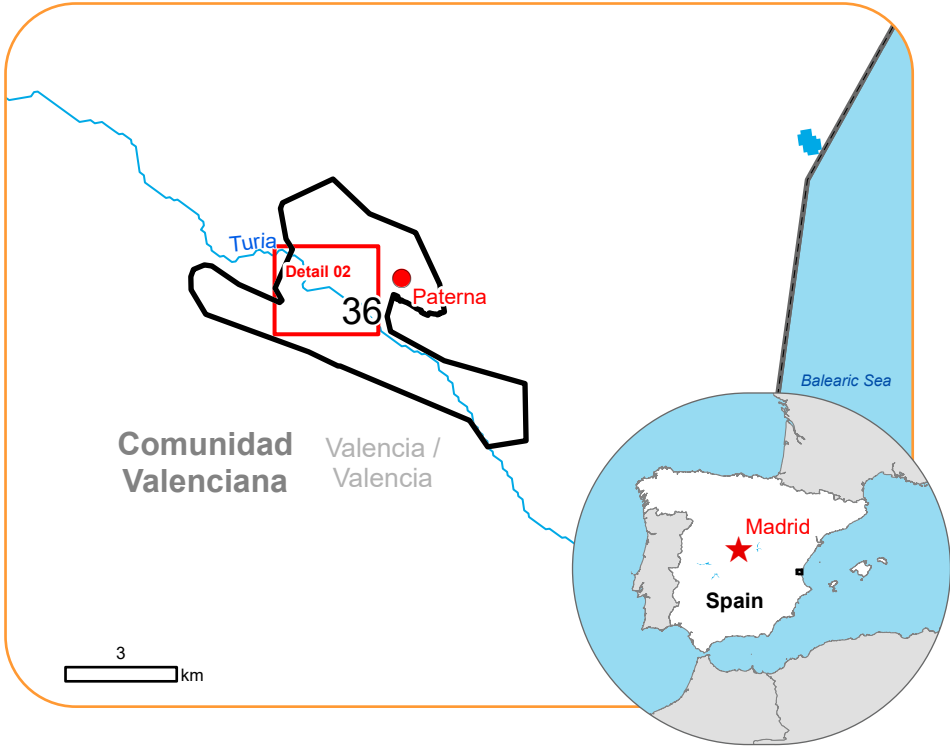
Map produced by ITHACA released by SERTIT on the 29/11/2024.



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



Situation as of 18/11/2024 12:16 UTC
Grading - Detail map 02



Crisis Information	Transportation Grading
Flooded Area	Road, Destroyed
Flood trace	Road, Damaged
Built Up Grading	Road, Possibly damaged
Destroyed	Highway, No visible damage
Damaged	Main road, No visible damage
Possibly damaged	Local road, No visible damage
Facilities Grading	Track, No visible damage
Long-distance pipeline or line, Possibly damaged	Airfield runway, No visible damage
Local pipeline or line, Possibly damaged	Subway, No visible damage
Dam, Possibly damaged	Airfield and Heliport, No visible damage
	General Information
	Area of Interest
	Administrative Boundaries
	Municipality
	Placenames
	Placename
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Consequences within the AOI						
	Unit of measurement	Destroyed	Damaged	Possibly damaged*	Total affected**	Total in AOI
Flood trace	ha					86.8
Flooded area	ha					17.1
Estimated population	Number of inhabitants				~ 300	~ 130,000
Built-up	Residential Buildings	No. 42	10	13	65	275
	Office buildings	No. 0	0	0	0	7
	Administrative	No. 0	0	0	0	1
	Institutional	No. 0	0	0	0	2
	Police station	No. 0	0	0	0	1
	Fire station	No. 0	0	0	0	1
	Wholesale and retail trade buildings	No. 0	0	0	0	40
	Industrial buildings	No. 0	0	0	0	4
	Reservoirs, silos and warehouses	No. 0	0	0	0	4
	Public entertainment buildings	No. 0	0	0	0	12
	Museums and libraries	No. 0	0	0	0	3
	School, university and research buildings	No. 0	0	0	0	28
	Hospital or institutional care buildings	No. 0	0	0	0	2
	Non-residential farm buildings	No. 0	0	3	3	6
	Buildings used as places of worship and for religious activities	No. 0	0	0	0	5
	Other buildings not elsewhere classified	No. 0	0	0	0	2
	Hotel buildings	No. 0	0	0	0	1
	Communication buildings, stations, terminals and associated buildings	No. 0	0	0	0	14
	Unclassified	No. 4	1	2	7	2,008
Transportation	Airfield runways	ha 0	0	0	0	208.0
	Helipad	ha 0	0	0	0	0.8
	Airfield runways	km 0	0	0	0	10.4
	Highways	km 0	0	0	0	50.5
	Primary Road	km 0	0	0	0	19.0
	Secondary Road	km 0	0	0	0	9.2
	Local Road	km 0	0	0	0	332.4
	Cart Track	km 2.2	2.4	1.8	6.4	44.0
	No Driveway	km 3.8	0.4	0.1	4.3	4.3
	Subway	km 0	0	0.3	0.3	26.1
Facilities	Settling Basin	ha 0	0	0	0	4.7
	Constructions for mining or extraction	ha 0	0	0	0	1.4
	Sport and recreation constructions	ha 1.1	0	0	1.1	153.2
	Long-distance pipelines, communication and electricity lines	km 0	0	0.4	0.4	9.4
	Local pipelines and cables	km 0	0	1.0	1.0	28.0
	Dams	km 0	0	0.1	0.1	0.2
Land use	Heterogeneous agricultural areas	ha			42.8	211.3
	Other	ha			32.6	1,810.8
	Shrub and/or herbaceous vegetation association	ha			25.1	52.7
	Permanent crops	ha			3.3	227.3
	Arable land	ha			0	9.2
	Pastures	ha			0	68.3

* Presence of damage proxies and proximity with destroyed/damaged asset

** Sum of all damage classes

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.

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).

PROGRAMME OF THE
EUROPEAN UNION

Access to the portal

