GLIDE number: N/A
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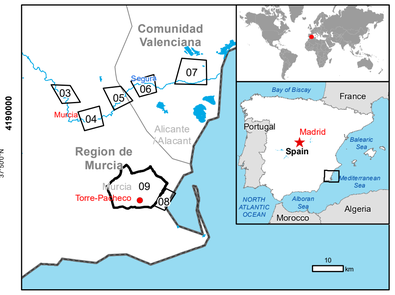
Activation ID: EMSR388
Product N.: 09TORREPACHECO, v1

# Torre Pacheco - SPAIN

## Flood - Situation as of 13/09/2019

Delineation - Overview map 01




## Cartographic Information

1:30000

Full color A1, 200 dpi resolution

0 0.25 0.5 1 km

N

Grid: WGS 1984 UTM Zone 30N map coordinate system
Tick marks: WGS 84 geographical coordinate system

## Legend

**Crisis Information**
- Flood trace (13/09/2019 10:50 UTC)

**General Information**
- Area of Interest
- Not Analysed

**Administrative boundaries**
- Municipality

**Placenames**
- Placename

**Hydrography**
- Stream
- Lake
- Reservoir

**Transportation**
- Highway
- Primary Road
- Secondary Road
- Long-distance railway

**Land use - Land Cover**
Features available in the vector package

| Consequences within the AOI | | | | |
|---|---|---|---|---|
| | | Unit of measurement | Affected | Total in AOI |
| Flood trace | | ha | 4482.8 | |
| Estimated population | | Number of inhabitants | N/A | 34031 |
| | Highway | km | 0.0 | 8.1 |
| | Primary Road | km | 19.2 | 103.8 |
| | Secondary Road | km | 14.9 | 72.9 |
| | Long-distance railway | km | 2.9 | 13.9 |
| Land use | Arable land | ha | 3600.4 | 13567.3 |
| | Permanent crops | ha | 445.2 | 2355.9 |
| | Heterogeneous agricultural areas | ha | 521.3 | 27901.2 |
| | Forests | ha | 2.1 | 50.3 |
| | Shrub and/or herbaceous vegetation association | ha | 1.2 | 229.3 |
| | Open spaces with little or no vegetation | ha | 0.2 | 85.0 |

## Map Information

Heavy rainfall, hail, winds up to 100 km/h and huge waves have affected the Southeast of the Iberian Penisula, causing floods in many villages with much damage to infrastructure and buildings in the provinces of Valencia, Alicante, Murcia and Albacete. The request is for Delineation and monitoring over large AOIs and damage grading analysis over focused badly hit areas.

The present map shows the flood grading product in the area of Torre Pacheco (Spain). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The estimated geometric accuracy (RMSE) is 15 m or better from native positional accuracy of the background satellite image.

## Relevant date records (UTC)

| | | | |
|---|---|---|---|
| Event | 11/09/2019 12:00 | Situation as of | 13/09/2019 10:50 |
| Activation | 12/09/2019 13:37 | Map production | 01/10/2019 |

## Data sources

Pre-event image: Sentinel-2A (2019) (acquired on 24/08/2019 at 10:50 UTC, GSD 10.0 m, approx. 20% cloud coverage in AoI, 0° off-nadir angle), provided under COPERNICUS by the European Union and ESA.

Post-event image: Sentinel-2A (2019) (acquired on 13/09/2019 at 10:50 UTC, GSD 10.0 m, approx. 15% cloud coverage in AoI, 0° off-nadir angle), provided under COPERNICUS by the European Union and ESA.

Base vector layers: OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames 2015, Corine Land Cover (CLC) 2012, refined by the producer.
Inset maps: JRC 2013, EuroBoundaryMap 2017 © EuroGeographics, Natural Earth 2012, CCM River DB © EEUJRC2007, GeoNames 2013.

Population data: GHS Population Grid © European Commission, 2015 http://data.europa.eu/89h/jrc-ghsl-ghs_pop_gpw4_globe_r2015a.
Digital Elevation Model: EU-DEM (25 m)

## Disclaimer

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Delivery formats are Layered Geospatial PDF, GeoJPEG and vector (ESRI shapefiles, Google Earth KML, GeoJSON).

Map produced by e-GEOS released by e-GEOS (ODO).

For the latest version of this map and related products visit
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