



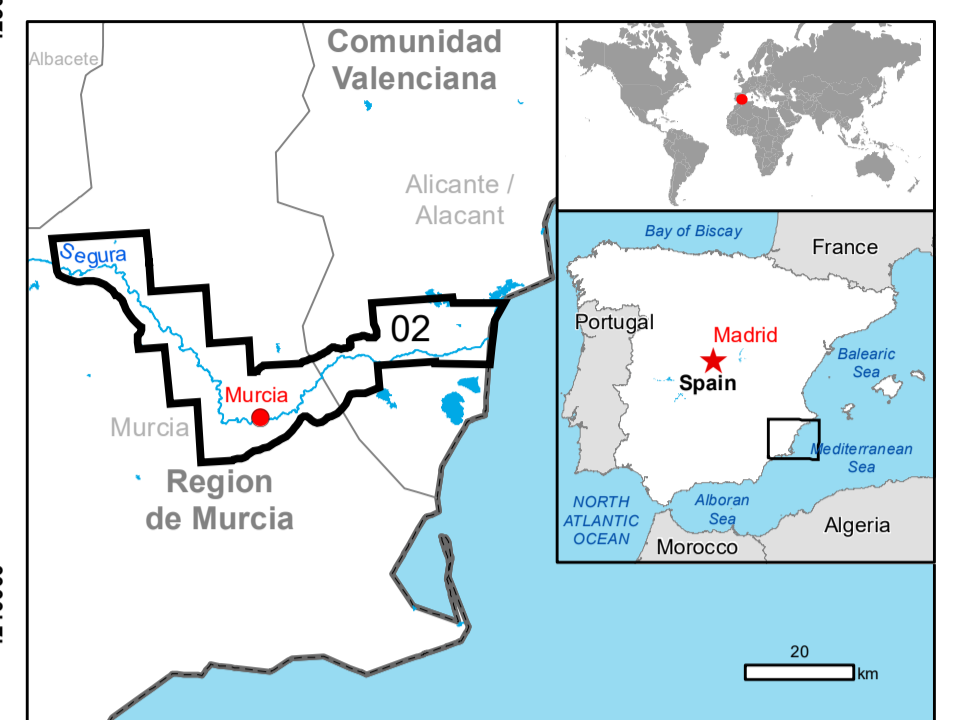
GLIDE number: N/A
Int. Charter call ID: N/A

Activation ID: EMSR388
Product N.: 02MURCIA, v2

Murcia - SPAIN

Flood - Situation as of 14/09/2019

Delineation - Overview map 01



Cartographic Information

1:125000 Full color A1, 200 dpi resolution

0 2.5 5 10 km

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

Legend

- Crisis Information**
 - Flooded Area (14/09/2019 17:52 UTC)
 - Area of Interest
 - Image Footprint
 - Not Analysed - No data
- Administrative boundaries**
 - Municipality
- Hydrography**
 - Coastline
 - River
 - Lake
 - Reservoir
 - River
- Transportation**
 - Highway
 - Primary Road
 - Secondary Road
- Placenames**
 - Placename
- Built-Up Area**
 - Built-Up Area

Land use - Land Cover

Features available in the vector package

Consequences within the AOI		Unit of measurement	Affected	Total in AOI
Flooded Area		ha	5929	5449.1
Estimated population		Number of inhabitants	5929	633680
Settlements	Residential	ha	171.4	25332.1
Transportation	Airfield runway	km	0.0	1.1
	Highway	km	0.1	256.1
	Primary Road	km	0.7	487.8
	Secondary Road	km	7.8	495.7
	Local Road	km	17.2	3462.9
	Cart Track	km	172.7	3708.2
	Long-distance railway	km	0.2	225.9
Land use	Arable land	ha	2904.0	11040.1
	Permanent crops	ha	504.3	34128.7
	Heterogeneous agricultural areas	ha	1890.6	30814.5
	Forests	ha	0.0	2462.2
	Shrub and/or herbaceous vegetation association	ha	5.3	11845.8
	Open spaces with little or no vegetation	ha	1.5	4351.4
	Inland wetlands	ha	1.6	84.6
	Coastal wetlands	ha	62.5	650.6
	Other	ha	79.3	16567.3

Map Information

Heavy rainfall, hail, winds up to 100 km/h and huge waves are affecting the Southeast of the Iberian Peninsula, causing floods in many villages with numerous damages to infrastructures and buildings in the provinces of Valencia, Alicante, Murcia and Albacete. According to Spain's meteorological agency AEMET, the extreme weather will intensify affecting many other areas in the next hours/days.

The present map shows the flood delineation in the area of Murcia (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	14/09/2019 17:52
Activation	12/09/2019 13:37	Map production	17/09/2019

Data sources

Pre-event image: Sentinel-2B (2019) (acquired on 19/08/2019 at 10:50 UTC, GSD 10.0 m, approx. 0% cloud coverage in AOI, 0° off-nadir angle) provided under COPERNICUS by the European Union and ESA.

Post-event image: COSMO-SkyMed © ASI (2019), distributed by e-GEOS S.p.A. (acquired on 14/09/2019 at 17:52 UTC, GSD 5.0 m), provided under COPERNICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors, GeoNames 2015, Corine Land Cover (CLC) 2012, Global Administrative Areas (GAA) (2012), refined by the producer.

Inset maps: JRC 2013, EuroBoundaryMap 2017 © EuroGeographics, Natural Earth 2012, CCM River DB © EUJRC2007, GeoNames 2013.

Population data: GHS Population Grid © European Commission, 2015
http://data.europa.eu/89h/jrc-ghs-pop_gpw4_globe_r2015a.
Digital Elevation Model: EU-DEM (25 m)

Disclaimer

Products elaborated in this Copernicus EMS Rapid Mapping activity are realized to the best of our ability, within a very short time frame, optimising the available data and information. All geographic information has limitations due to scale, resolution, date and interpretation of the original sources. No liability concerning the contents or the use thereof is assumed by the producer and by the European Union.

Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

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

Map produced by ITHACA released by SERTIT (ODO).

For the latest version of this map and related products visit
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jrc-ems-rapid-mapping@ec.europa.eu
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