



GLIDE number: N/A  
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Activation ID: EMSR388  
Product N.: 06ORIHUELA, v1

### Orihuela - SPAIN

#### Flood - Situation as of 18/09/2019

#### Grading - Overview map 01

#### Cartographic Information

1:15000      Full color A1, 200 dpi resolution

0 0.25 0.5 1 km

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

#### Legend

**Crisis Information**  
(18/09/2019 10:51 UTC)  
Flooded area  
Flood trace  
(18/09/2019 10:51 UTC)  
**Built Up Grading**  
Destroyed  
Damaged  
Possibly damaged  
**Transportation Grading**  
Road, Damaged  
Road, Possibly damaged  
Road, No visible damage

**General Information**  
Area of Interest  
Detail map  
**Administrative boundaries**  
Municipality  
**Placenames**  
Placename  
**Hydrography**  
Stream  
Lake  
Reservoir  
River  
**Land use - Land Cover**  
Features available in the vector package

Consequences within the AOI		Unit of measurement				
		Destroyed	Damaged	Possibly damaged	Total affected	Total in AOI
Flooded area	ha	NA	NA	NA	248.1	248.1
Flood trace	km	NA	NA	NA	69.3	69.3
Estimated population	Number of inhabitants	NA	NA	NA	21988	21988
Settlements	Residential	NA	3	321	318	640
	Industrial building and workshop	NA	0	0	0	0
Transportation	Primary Road	km	0.0	0.0	0.0	26.2
	Secondary Road	km	0.0	0.0	0.0	26.6
	Local Road	km	0.0	2.8	0.7	3.5
	Canal	km	0.0	1.6	0.2	1.8
	Long-distance railway	km	0.0	0.0	0.0	19.7

#### Map Information

Heavy rainfall, hail, winds up to 100 km/h and huge waves have affected the Southeast of the Iberian Peninsula, 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 delineation product in the area of Orihuela (Spain). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The estimated geometric accuracy (RMSE) is 1.25 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	18/09/2019 10:51
Activation	12/09/2019 13:37	Map production	19/09/2019

#### Data sources

Pre-event image: WorldView-2 © Digital Globe, Inc. (2019), (acquired on 06/09/2019 at 10:56 UTC, GSD 0.5 m, approx. 0% cloud coverage in AOI, 18° off-nadir angle), provided under COPERNICUS by the European Union, ESA and European Space Imaging, all rights reserved.

Post-event image: Pleiades-1A © CNES (2019), distributed by Airbus DS (acquired on 18/09/2019 at 10:51 UTC, GSD 0.5 m, approx. 0% cloud coverage in AOI, 16.9° off-nadir angle), provided under COPERNICUS by the European Union and ESA, all rights reserved.

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 © EURC2007, GeoNames 2013.

Population data: GHS - Population Grid © European Commission, 2015  
http://data.europa.eu/89h/jrc-ghs-gpp\_gppw4\_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 SERTIT (ODO).

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