

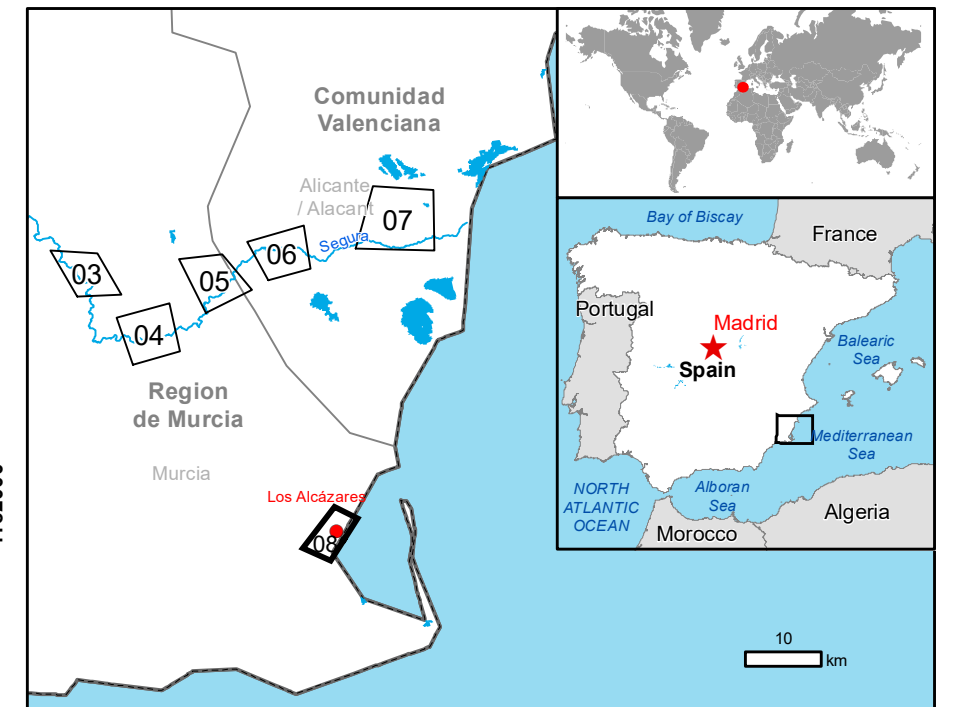


GLIDE number: N/A Activation ID: EMSR388
Int. Charter call ID: N/A Product N: 08LOSALCAZARES, v1

Los Alcazares - SPAIN

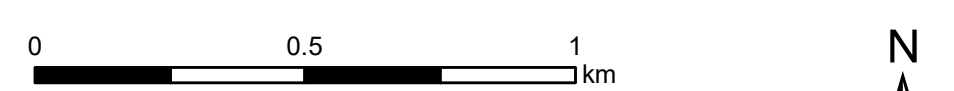
Flood - Situation as of 18/09/2019

Grading - Overview Map 01



Cartographic Information

1:14000 Full color A1, 200 dpi resolution



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

Legend

Crisis Information	General Information
<ul style="list-style-type: none">Flooded Area (18/09/2019 10:51 UTC)Flooded Trace (18/09/2019 10:51 UTC)	<ul style="list-style-type: none">Line of WatersAdministrative boundaries
<ul style="list-style-type: none">Built Up GradingDamaged	<ul style="list-style-type: none">HydrographyCoastlineStreamLakeReservoir
<ul style="list-style-type: none">Transportation GradingRoad, DestroyedRoad, DamagedRoad, Possibly damagedRoad, No visible damageAirfield runway, Possibly damagedAirfield runway, No visible damage	<ul style="list-style-type: none">TransportationBridge and elevated highway
<ul style="list-style-type: none">Facilities GradingPossibly damaged	<ul style="list-style-type: none">Physiography & Land use - Land CoverFeatures available in the vector package

Consequences within the AOI		Unit of measurement		Destroyed	Damaged	Possibly damaged	Total affected	Total in AOI
Flooded area		ha					82.5	796.0
Estimated population		Number of inhabitants					3484	N/A
Settlements	Residential	ha	0	2603	3201		5804	N/A
	Industrial	ha	0	0	2	2	4	N/A
	Other non-residential	ha	0	369	131	169	609	N/A
Transportation	Building used as place of worship and for religious activities	ha	0	0	1	1	2	N/A
	Bridge and elevated highway	km	0	0	0	0	0	8
	Highway	km	0.0	0.0	0.0	0.0	0.0	14.3
Facilities	Primary Road	km	0.0	0.0	0.0	0.0	0.0	15.2
	Secondary Road	km	0.0	0.0	3.0	3.0	6.0	12.5
	Local Road	km	0.0	0.0	73.9	74.3	148.2	171.8
Facilities	Coastal Track	km	8.2	7.7	19.7	27.5	47.2	66.8
	Airfield runways	km	0.0	0.0	0.0	0.0	0.0	1.7
	Construction for mining or extraction	ha	0.0	0.0	11.0	11.0	22.0	11.0

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 damage grade assessment in the area of Los Alcazares (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	18/09/2019

Data sources

Pre-event image: Pleiades-1A © CNES (2018), distributed by Airbus DS (acquired on 29/11/2018 at 10:54 UTC, GSD 0.5 m, approx. 0% cloud coverage in AOI, 17.3° off-nadir angle), provided under COPERNICUS by the European Union and ESA, all rights reserved.
Post-event image: Pleiades-1B © 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, 18.8° 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, Global Administrative Areas (2012), refined by the producer.
Inset maps: JRC 2013, EuroBoundaryMap 2017 © EuroGeographics, Natural Earth 2012, CCM River DB © EUERC2007, GeoNames 2013.

Population data: GHS Population Grid © European Commission, 2015
http://data.europa.eu/8hr/jrc-ghs-pop_gpw4_globe_r2015a
Digital Elevation Model: SRTM (90 m) (NASA/USGS)

Disclaimer

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

Map produced by Telespazio Iberica released by SERTIT (ODO)

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