

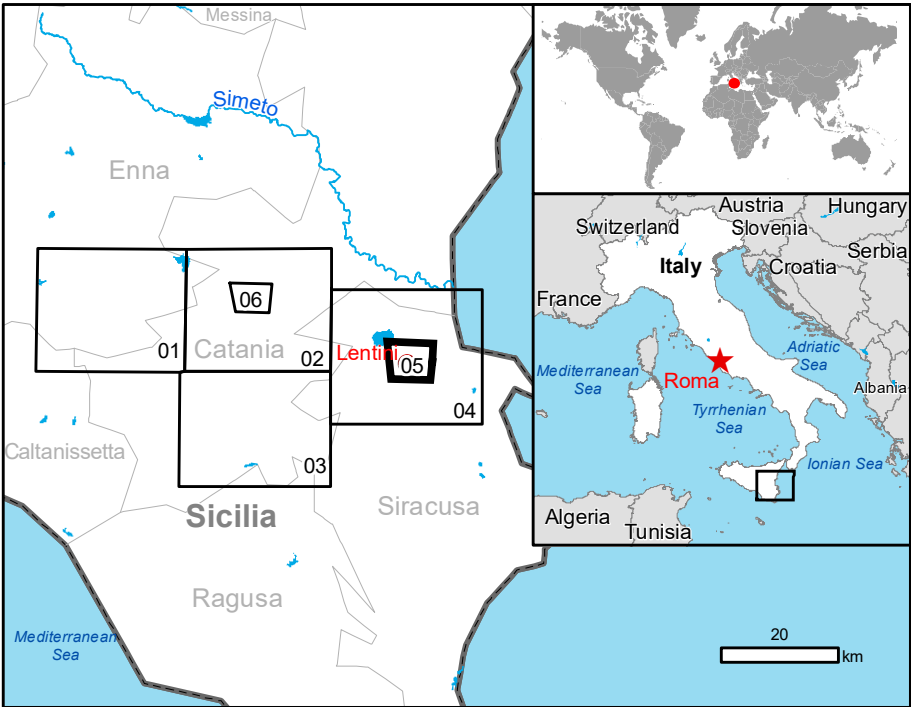


GLIDE number: N/A Activation ID: EMSR330  
Product N.: 05LENTINIDETAIL, v1, English

## Lentini Detail - ITALY

### Flood - Situation as of 26/10/2018

#### Grading Map



#### Cartographic Information

1:12000 Full color ISO A1, medium resolution (200 dpi)

0 0.25 0.5 1 km

Grid: WGS 1984 UTM Zone 33N map coordinate system  
Tick marks: WGS 84 geographical coordinate system

#### Legend

Crisis Information		Hydrography	
<span style="background-color: blue; border: 1px solid black;"> </span>	Flooded Area (26/10/2018 10:16 UTC)	<span style="color: blue;">—</span>	River
<span style="border: 2px solid orange;"> </span>	Flood trace	<span style="background-color: lightblue; border: 1px solid blue;"> </span>	Lake
<span style="border: 2px solid green;"> </span>	Area of Interest	<span style="background-color: lightblue; border: 1px solid blue;"> </span>	Reservoir
General Information		<span style="color: blue;">—</span>	River
Administrative boundaries		<span style="color: red;">—</span>	Highway
<span style="color: grey;">---</span>	Municipality	<span style="color: yellow;">—</span>	Primary Road
Placenames		<span style="color: brown;">—</span>	Secondary Road
<span style="color: grey;">o</span>	Placename	<span style="color: grey;">—</span>	Local Road
		<span style="color: black;">—</span>	Long-distance railway

Consequences within the AOI						
	Unit of measurement	Destroyed	Damaged	Possibly damaged	Total affected	Total in AOI
Flooded area	ha				30.5	
Flood Trace	ha				30.1	
Estimated population	Number of inhabitants				0	22608
Settlements	Residential	ha	0.0	0.0	0.0	414.3
	Highway	km	0.0	0.0	0.0	0.1
	Primary Road	km	0.0	0.0	0.0	7.2
	Secondary Road	km	0.0	0.0	0.0	36.2
	Local Road	km	0.0	0.0	0.0	171.9
Transportation	Long-distance railway	km	0.0	0.0	0.0	14.3

#### Map Information

From the late evening of 18th October to the first hours of 19th an intense weather event with heavy rain occurred in Sicily. The most affected area was the south-eastern part of the region. In the previous 10 days the region, in particular along the East coast, had already been affected by heavy rainfall. The highest intensity of precipitation has been recorded by the rain gauge of Palagonia (Catania) with 240 mm of rain in a few hours. Moreover, Simeto river overflowed and flooded the surrounding areas.

The present map shows the flood delineation in the area of Lentini. The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The estimated geometric accuracy is 5 m CEB0 or better, from native positional accuracy of the background satellite image.

Relevant date records			
Event	19/10/2018	Situation as of	26/10/2018
Activation	25/10/2018	Map production	26/10/2018

#### Data Sources

Pre-event image: ESRI World Imagery © DigitalGlobe (acquired on 17/08/2016, GSD 0.5 m, approx. 0% cloud coverage in AOI).  
Post-event image: Pléiades-1A/B © CNES (2016), distributed by Airbus DS (acquired on 26/10/2018 at 10:16 UTC, GSD 0.5 m, approx. 0% cloud coverage in AOI, 31.9° off-nadir angle), provided under COPENICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames 2015, refined by the producer.  
Inset maps: JRC 2013, © EuroGeographics, 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-ghs\\_pop\\_gpw4\\_globe\\_r2015a](http://data.europa.eu/89h/jrc-ghs-ghs_pop_gpw4_globe_r2015a)  
Digital Elevation Model: EU-DEM (25 m)

#### Disclaimer

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

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

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