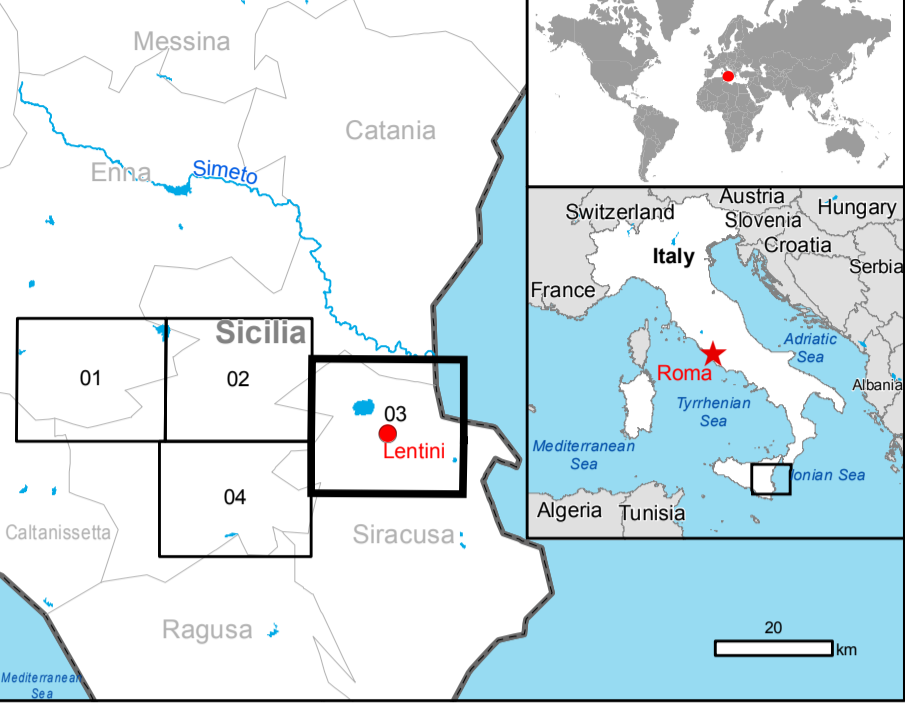


Lentini - ITALY
Flood - Situation as of 19/10/2018
Delineation Map



Cartographic Information

1:43000 Full color ISO A1, medium resolution (200 dpi)



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

Legend

Crisis Information	Physiography
Flooded Area (19/10/2018 05:05 UTC)	Elevation Contour (m)
General Information	Facilities
Area of Interest	Construction for mining or extraction
Image Footprint	Power plant construction
Administrative boundaries	Sport and recreation constructions
Municipality	Other civil engineering works not elsewhere classified
Placenames	Transportation
Placename	Highway
Built-Up Area	Primary Road
Residential	Secondary Road
Multi-functional	Local Road
Hydrography	Long-distance railway
Coastline	Tunnel and subway
River	Land use - Land Cover
Stream	Features available in vector data
Lake	
Reservoir	

Consequences within the AOI		Unit of measurement		Affected	Total in AOI
Flooded area				ha	1699.5
Estimated population		Number of inhabitants		0	72376
Settlements				ha	0.0
Residential	Residential			0.0	2276.8
	Multi-functional			0.0	414.1
Transportation	Highway	km	0.0	12.6	
	Primary Road	km	3.4	45.1	
	Secondary Road	km	0.0	144.0	
	Local Road	km	9.9	425.3	
	Tunnels and subways	km	0.0	8.5	
Facilities	Long-distance railway	km	0.0	49.6	
	Construction for mining or extraction	ha	0.0	502.9	
	Power plant construction	ha	0.0	36.9	
	Sport and recreation construction	ha	0.0	86.3	
	Other civil engineering works not elsewhere classified	ha	1.8	44.5	
Land use	Heterogeneous agricultural areas	ha	1535.0	35461.6	
	Forests	ha	0.0	153.9	
	Shrub and/or herbaceous vegetation association	ha	193.0	1726.2	
	Open spaces with little or no vegetation	ha	0.0	170.3	

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 CE90 or better, from native positional accuracy of the background satellite image.

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

Data Sources

Pre-event image: Sentinel 2A (2018) (acquired on 15/09/2018 at 09:50 UTC, the 30/09/2018 at 09:50 UTC, GSD 10 m, approx. 0% cloud coverage in AOI) provided under COPERNICUS by the European Union and ESA.
Post-event image: RADARSAT 2 Data and products © MacDonald, Dettwiler and Associates Ltd. (2018) (acquired on 19/10/2018 at 05:05 UTC, GSD 25.0 m) – RADARSAT is an official mark of the Canadian Space Agency – provided under COPERNICUS 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 2015, © 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/8hr/jrc-ghs-gdp_gpw_globe_2015a.
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 ITHACA released by e-GEOS (ODD).

For the latest version of this map and related products visit
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