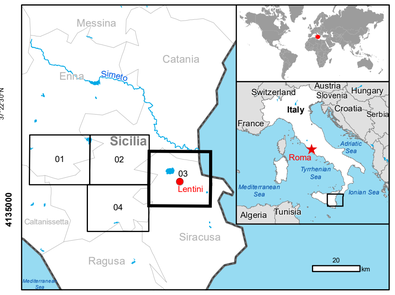
GLIDE number: N/A

Activation ID: EMSR330
Product N.: 03LENTINI, v1, English

Lentini - ITALY
Flood - Situation as of 26/10/2018
Delineation Map - MONIT01



Cartographic Information

1:43000

Full color ISO A1, medium resolution (200 dpi)

0 0.75 1.5 3 km

N

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

Legend

Crisis Information
- Flooded Area (26/10/2018 05:01 UTC)
- Previous Flooded Area (19/10/2018 05:05 UTC)

General Information
- Area of Interest
- Image Footprint
- Not Analysed - No data

Administrative boundaries
- Municipality

Placenames
- Placename

Built-Up Area
- Residential
- Multi-functional

Hydrography
- Coastline
- River
- Stream
- Lake
- Reservoir

Physiography
- Elevation Contour (m)

Facilities
- Construction for mining or extraction
- Power plant construction
- Sport and recreation constructions
- Other civil engineering works not elsewhere classified

Transportation
- Highway
- Primary Road
- Secondary Road
- Local Road
- Long-distance railway
- Tunnel and subway

Land use - Land Cover
Features available in vector data

Consequences within the AOI			Unit of measurement	Affected	Total in AOI
Flooded area			ha		529.9
Estimated population			Number of inhabitants	3	72376
Settlements	Residential		ha	0.1	2376.8
	Multi-functional		ha	4.2	414.1
Transportation	Highway		km		12.6
	Primary Road		km		50.1
	Secondary Road		km		144.0
	Local Road		km	0.1	425.3
	Tunnels and Subways		km		8.5
	Long-distance Railway		km		49.6
Facilities	Construction for mining or extraction		ha		502.9
	Power plant construction		ha		38.9
	Sport and recreation construction		ha		89.3
	Other civil engineering works not elsewhere classified		ha	0.2	44.5
Land use	Heterogeneous agricultural areas		ha	510.2	35461.6
	Forests		ha	0.0	153.9
	Shrub and/or herbaceous vegetation association		ha	10.1	17362.1
	Open spaces with little or no vegetation		ha	4.1	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	26/10/2018
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 and 26/10/2018 at 05:01 UTC, GSD 5 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 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-ghsl-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 GAF AG released by e-GEOS (ODO).

For the latest version of this map and related products visit http://emergency.copernicus.eu/EMSR330

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