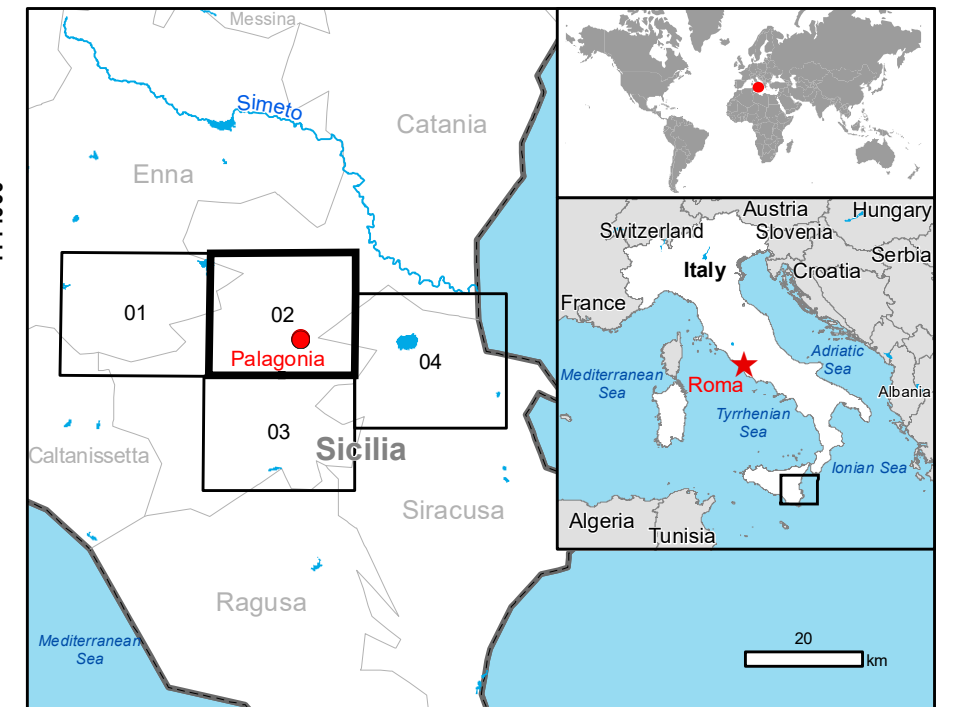


GLIDE number: N/A Activation ID: EMSR330
Product N.: 02PALAGONIA, v1, English

Palagonia - ITALY

Flood - Situation as of 19/10/2018

Delineation Map



Cartographic Information

1:40000 Full color ISO A1, medium resolution (200 dpi)

0 0.75 1.5 3 km

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

Legend
Crisis Information
Flooded Area (19/10/2018 05:05 UTC)
General Information
Area of Interest
Placenames
Placename
Built-Up Area
Residential
Industrial building and warehouse
Industrial
Sports hall
Multi-functional

Hydrography
River
Lake
Reservoir
Physiography
Elevation Contour (m)
Transportation
Bridge and elevated highway
Primary Road
Secondary Road
Local Road
Long-distance railway

Consequences within the AOI				
	Unit of measurement		Affected	Total in AOI
Flooded area	ha		373.2	
Estimated population	Number of inhabitants		0	47515
Settlements	Residential	ha	0.0	432.9
	Industrial building and warehouse	ha	0.0	17.2
	Industrial	ha	0.0	94.3
	Sports hall	ha	0.0	1.6
	Multi-functional	ha	0.0	58.0
Transportation	Bridge and elevated highway	No.	0	25
	Primary Road	km	0.0	80.3
	Secondary Road	km	0.0	110.8
	Local Road	km	0.1	586.5
Facilities	Dam	No.	0.0	1.0
	Construction for mining or extraction	ha	0.0	108.0
	Power plant construction	ha	0.0	11.2
	Sport and recreation construction	ha	0.0	5.6
Land use	Arable land	ha	335.9	110023.0
	Permanent crops	ha	29.9	68002.3
	Heterogeneous agricultural areas	ha	3.7	14891.1
	Forests	ha	0.0	1761.6
	Shrub and/or herbaceous vegetation association	ha	3.7	11102.0

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 Palagonia. 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 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. (19/10/2018) (acquired on 19/10/2018 at 05:05 UTC, GSD 25 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 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_j2015a

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 SIRS released by e-GEOS (ODD).

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

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