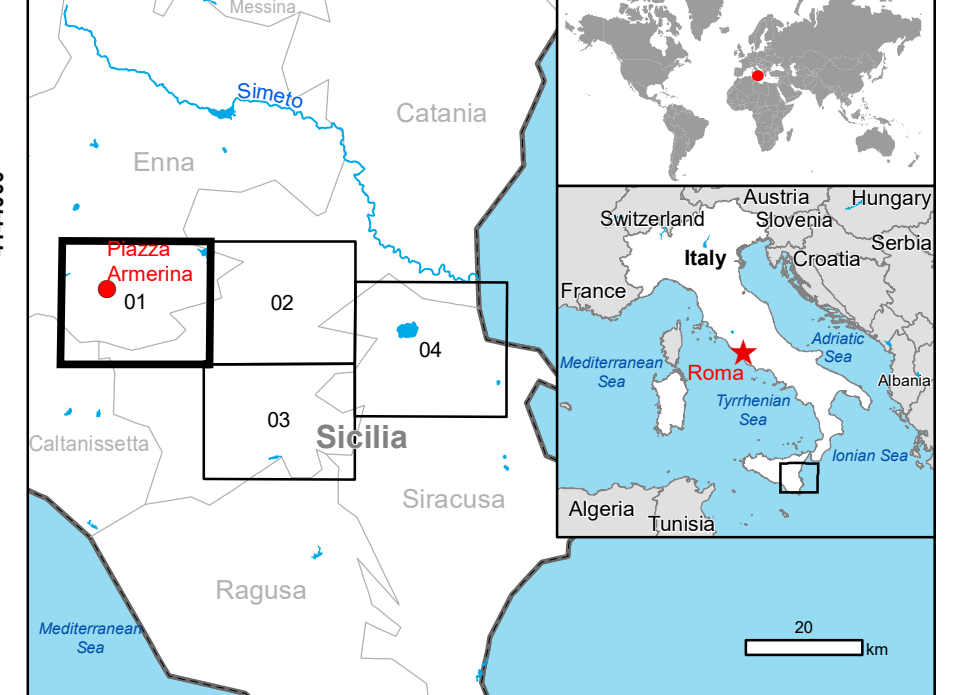


Piazza Armerina - ITALY

Flood - Situation as of 26/10/2018

Delineation Map - MONIT01



Cartographic Information

1:40000 Full color ISO A1, high resolution (300 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 (26/10/2018 05:02 UTC)
 - General Information**
 - Area of Interest
 - Placenames**
 - Placename
 - Built-Up Area**
 - Residential
 - Industrial
 - Reservoir, silos and warehouse
 - Museum and libraries
 - Hospital or institutional care
 - Sports hall
 - Multi-functional
 - Cemetery
 - Hydrography**
 - River
 - Lake
 - Reservoir
 - Physiography**
 - Elevation Contour (m)
 - Transportation**
 - Helipad
 - Bridge and elevated highway
 - Primary Road
 - Secondary Road
 - Local Road
 - Long-distance railway
 - Dam
 - Construction for mining or extraction
 - Power plant construction
 - Land use**
 - Available land
 - Permanent crops
 - Heterogeneous agricultural areas
 - Forests
 - Shrub and/or herbaceous vegetation association

Crisis Information		Unit of measurement		Total in AOI	
Flooded area		ha	%	ha	%
Estimated population				0	7293
Settlements	Residential	ha	0.0	262.7	
	Industrial building and warehouse	ha	0.0	85.3	
	Reservoir, silos and warehouse	ha	0.0	15.2	
	Museum and libraries	ha	0.0	1.0	
	Sports hall	ha	0.0	9.3	
	Hospital or institutional care	ha	0.0	3.7	
	Multi-functional	ha	0.0	8.6	
	Cemetery	ha	0.0	11.0	
Transportation	Helipad	ha	0.0	2	
	Bridge and elevated highway	ha	0.0	9	
	Primary Road	km	0.0	33.8	
	Secondary Road	km	0.0	114.7	
	Local Road	km	0.2	2246.6	
	Long-distance railway	km	0.0	31.5	
Facilities	Dam	ha	0.0	1.0	
	Construction for mining or extraction	ha	0.0	20.8	
	Power plant construction	ha	0.0	22.0	
Land use	Available land	ha	17.6	9912.9	
	Permanent crops	ha	0.0	12016.7	
	Heterogeneous agricultural areas	ha	0.0	9169.4	
	Forests	ha	0.0	23314.0	
	Shrub and/or herbaceous vegetation association	ha	0.0	892.7	

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 Piazza Armerina. 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 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. (26/10/2018) (acquired on 26/10/2018 at 05:02 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.

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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, CCN River DB © EURC2007, GeoNames 2013.

Population data: GHS - Population Grid © European Commission, 2015 http://data.europa.eu/89h/jrc-ghs-pop_gpw4_globe_r2015a.

Digital Elevation Model: EU-DEM (25 m)