

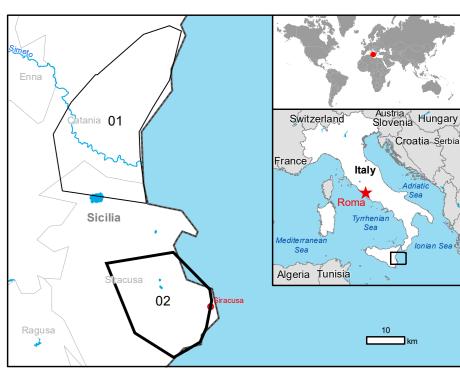
Siracusa - ITALY

Activation ID: EMSR548

Product N.: 02SIRACUSA, v1

Full color A1, 200 dpi resolution

Delineation MONIT02 - Overview map 01



Cartographic Information

Grid: WGS 1984 UTM Zone 33N map coordinate system

Tick marks: WGS 84 geographical coordinate system

Legend

Previous Flooded Area
(29/10/2021 17:02 UTC) Placenames

Land Use, Land Cover, Facilities, Building points and Transportation network Features available in the vector package

		Affected	Total in AOI
Flooded area	ha		68,4
Estimated population		38	160.336
Built-up	No.	0	27.649
Transportation	km	2,2	2.458,1
	ha	0,0	2,7
acilities	km	0,1	272,2
	ha	27,7	1.513,4
and use	ha	68,4	50.412,9

Map Information

In the late evening of Saturday 23 October 2021, a deep cyclone located in the Ionian Sea, brought heavy and persistent rainfall to the Ionian coast of Sicily and Calabria, mainly around Catania and Syracusa cities. A Red alert was issued by the National Department of Civil Protection. The rain gauge of the municipality of Linguaglossa, recorded over 500 mm in 48 hours. The worst situation was registered in the metropolitan area of Catania and in the municipality of Misterbianco with extensive urban flooding. Road circulation was impeded and several houses were invaded by mud and debris. In the municipality of Randazzo many and several houses were invaded by mud and debris. In the municipality of Randazzo, many people have been evacuated due the overflow of the Flascio stream. The National Department of Civil Protection triggered the Copernicus EMS Rapid Mapping Service for

The present map shows the flood delineation in the area of Siracusa (Italy). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The scale of analysis is 1:10000. The estimated geometric accuracy (RMSE) is 6 m or better, from native positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 576 sq m.

Relevant date records (UTC)

vent	24/10/2021 00:00	Situation as of	30/10/2021 16:34
ctivation	27/10/2021 11:31	Map production	31/10/2021
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Data sources

approx. 0% cloud coverage in AoI, 0° off-nadir angle) provided under COPERNICUS by the Post-event image: COSMO-SkyMed © ASI (2021), distributed by e-GEOS S.p.A. (acquired on 30/10/2021 at 16:34 UTC, GSD 3.0 m), provided under COPERNICUS by the European Union and ESA, all rights reserved. RADARSAT 2 Data and products © MacDonald, Dettwiler and Associates Ltd. (2021) (acquired on 29/10/2021 at 17:02 UTC, GSD 3.0 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 (2021), Wikimapia.org, GeoNames 2015, Corine Land Cover (CLC) 2018, EuroBoundaryMap 2017 © Inset maps: JRC 2013, GISCO 2010 © EuroGeographics, Natural Earth 2012, CCM River

https://ghsl.jrc.ec.europa.eu/ghs_pop2019.php
Digital Elevation Model: COP-DEM-EEA-10-R product © DLR e.V. (2014-2018) and © Airbus Defence and Space GmbH (2020) provided under COPERNICUS by the European Union

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of our ability, within a very short time frame, optimising the available data and information. All geographic information has limitations due to scale, resolution, date and interpretation of the original sources. No liability concerning the contents or the use thereof is assumed by the producer and by the European Union. Please be aware that the thematic accuracy might be lower in urban and forested areas due

to inherent limitations of the SAR analysis technique. Delivery formats are Layered Geospatial PDF, GeoJPEG and vector (ESRI shapefiles,

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

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