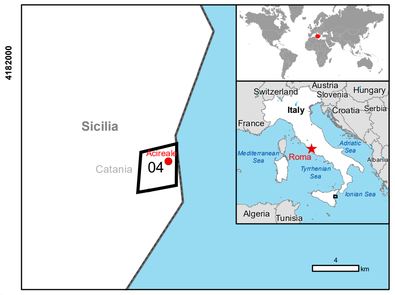
GLIDE number: N/A
Int. Charter Act. ID: N/A

Activation ID: EMSR649
Product N.: 04ACIREALE, v1

Acireale - ITALY

Flood - Situation as of 11/02/2023

Grading - Overview map 01



Cartographic Information

1:8300

Full color A1, 200 dpi resolution

0 0,15 0,3 0,6 km

Grid: WGS 1984 UTM Zone 32N map coordinate system
Tick marks: WGS 84 geographical coordinate system

N

Legend

- Flood trace
- **Built Up Grading**
  - Possibly damaged
- **Transportation Grading**
  - Road, Possibly damaged
  - Highway, No visible damage
  - Primary Road, No visible damage
  - Secondary Road, No visible damage
  - Local Road, No visible damage
  - Cart Track, No visible damage
  - Long-distance railway, No visible damage
- **Facilities Grading**
  - Berthing Structure, Possibly damaged
  - Breakwater, Possibly damaged
- **General Information**
  - Area of Interest
- **Administrative boundaries**
  - Municipality
- **Placenames**
  - Placename
- **Hydrography**
  - Coastline
  - Stream
  - Lake
  - Reservoir
- **Land Use - Land Cover**
  - Features available in the vector package

Consequences within the AOI							
	Unit of measurement	Destroyed	Damaged	Possibly damaged*	Total affected*	Total in AOI
Flood trace	ha					0.4
Estimated population	Number of inhabitants				3	32,203
Built-up	Residential Buildings	No.	0	0	0	0	16
	Office buildings	No.	0	0	0	0	1
	Police station	No.	0	0	0	0	0
	Fire station	No.	0	0	0	0	1
	Wholesale and retail trade buildings	No.	0	0	0	0	1
	Public entertainment buildings	No.	0	0	0	0	8
	Sport facility buildings	No.	0	0	0	0	0
	School, university and research buildings	No.	0	0	0	0	1
	Hospital or institutional care buildings	No.	0	0	0	0	1
	Buildings used as places of worship and for religious activities	No.	0	0	0	0	1
	Hotel buildings	No.	0	0	0	0	6
	Communication buildings, stations, terminals and associated buildings	No.	0	0	0	0	0
	Unclassified	No.	0	0	57	57	2,503
	Total	No.	0	0	57	57	2,550
Transportation	Primary Road	km	0.0	0.0	0.0	0.0	6.5
	Secondary Road	km	0.0	0.0	0.0	0.0	0.7
	Local Road	km	0.0	0.0	0.9	0.9	126.0
	Cart Track	km	0.0	0.0	0.0	0.0	5.3
	Long-distance railways	km	0.0	0.0	0.0	0.0	17.2
Facilities	Long-distance pipelines, communication and electricity lines	km	0.0	0.0	0.0	0.0	4.3
	Berthing Structure	km	0.0	0.0	0.2	0.2	0.2
		km	0.0	0.0	0.0	0.0	0.0
			High damage	Moderate damage	Negligible to slight damage	Total affected*	Total in AOI
Land use	Permanent crops	ha	NA	NA	NA	0.3	196.9
	Heterogeneous agricultural areas	ha	NA	NA	NA	0.0	176.4
	Forests	ha	NA	NA	NA	0.0	77.3
	Other	ha	NA	NA	NA	0.1	877.4

* Presence of damage proxies and proximity with destroyed-damaged asset
** Sum of all damage classes

Map Information

An area of low pressure coming from North Africa will bring, from tomorrow, widespread and persistent rainfall with very strong winds over Sicily, especially in the south-eastern areas. Heavy rains are expected that could cause rivers to rise and flood especially over the cities of Catania, Syracuse, and Ragusa. The national warning system has issued a red alert over this area. The event is expected to peak on February 09 afternoon and last until Friday February 10 afternoon.

The present map shows the flood delineation in the area of Acireale (Italy). The thematic layer has been derived from post-event satellite image by means of visual interpretation. The scale of analysis is 1:10000.The estimated geometric accuracy (RMSE) is 2.5 m or better, from native positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 100 sq m.

Relevant date records (UTC)

Event	09/02/2023 12:00	Situation as of	11/02/2023 09:58
Activation	09/02/2023 02:33	Map production	11/02/2023

Data sources

Pre-event image: ESRI World Imagery © DigitalGlobe (acquired on 03/02/2022, GSD 0.5 m, approx. 0% cloud coverage in AoI).
Post-event image: Pléiades-1A/B © CNES (2023), distributed by Airbus DS (acquired on 11/02/2023 at 09:58 UTC, GSD 0.5 m, approx. 0% cloud coverage in AoI, 10.2° off-nadir angle), provided under COPERNICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2022), Wikimapia.org, GeoNames 2015, Corine Land Cover (CLC) 2018, EuroBoundaryMap 2017 © EuroGeographics, refined by the producer.
Inset maps: JRC 2013, GISCO 2010 © EuroGeographics, Natural Earth 2012, CCM River DB © EUJRC2007, GeoNames 2015.

Population data: GHS Population Grid © European Commission, 2019 https://ghsl.jrc.ec.europa.eu/ghs_pop2019.php

Disclaimer

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Delivery formats are Layered Geospatial PDF, GeoJPEG and vector (ESRI shapefiles, Google Earth KML, GeoJSON).

Map produced by ITHACA released by EGEOS (ODO).

For the latest version of this map and related products visit
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