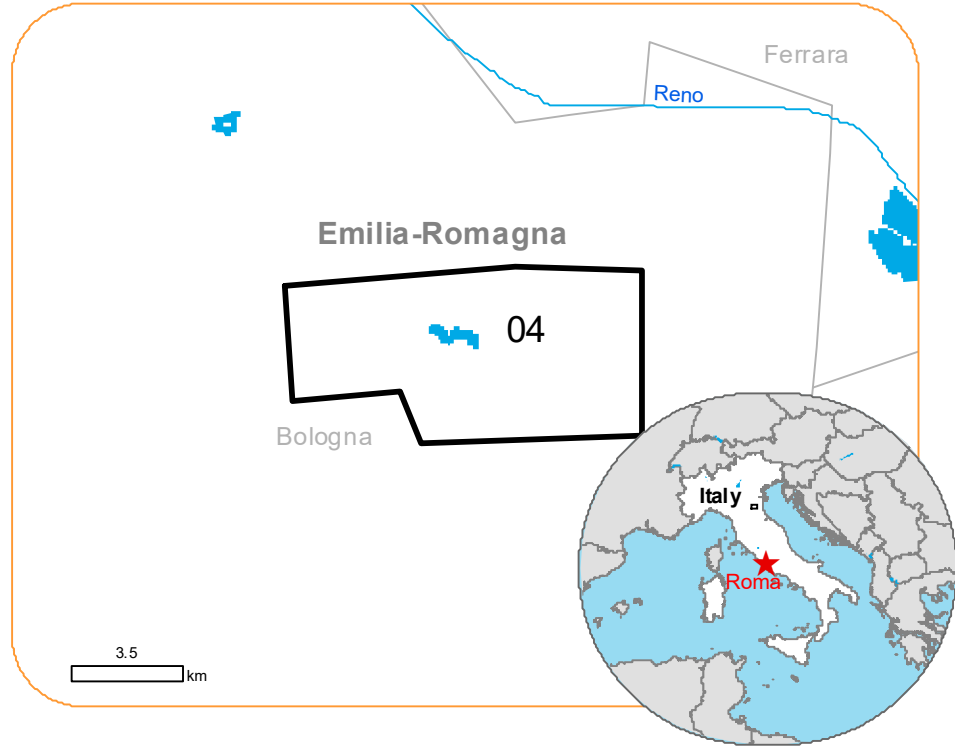




EMSR659 - AOI04
Flood in Italy
IDICE-MOLINELLA

Situation as of 05/05/2023 10:08 UTC
Grading Consolidation - Overview map 01



Flooded area
823.9 ha



Potentially affected
population
~ 100

Affected Built-up and Transportations



Built-Up
36 No.



Facilities
3.0 ha



Road
16.5 km

Crisis Information

Flooded Area

Non residential Building,
Damaged

Unclassified Building,
Damaged

Unclassified Building,
Possibly damaged

Facilities Grading

Possibly damaged

Transportation Grading

No visible damage

Main road, No visible
damage

Local road, No visible
damage

Track, No visible damage

General Information

Area of Interest

Image Footprint

Administrative boundaries

Municipality

Placenames

Placename

Hydrography

River

Stream

Lake

Land Subject to Inundation

Reservoir

All data displayed on the
map(s), as well as the Land
Use -Land Cover layer,
is available in the Crisis
Information Package and
the Base Layer Package
(for reference data).
All products and data are
also available for download
on the activation webpage.

Event:

On the 02 May 2023, an intense phase of bad weather, with considerable rainfall, hit Emilia-Romagna, Italy. The event is ongoing with river levels very high, the breaking of the Sillaro River embankment and the overflow of the Lamone River producing flooding close to the cities of Massa Lombarda and Conselice. Copernicus EMS Rapid Mapping is requested to provide initial rough estimation, flood extent and damage assessment emergency mapping.

Data sources and analysis: Pre-event image: Sentinel-2A/B (2022) (acquired on 24/11/2022 at 10:13 UTC, resolution 10.0 m). This image is used as background image.
Post-event image: Pléiades-1A/B @ CNES (2023), (acquired on 05/05/2023 at 10:08 UTC, resolution 0.5 m). This image is used as background image.
Post-event image: Aerial data @ European Commission (acquired on 05/05/2023 10:00 UTC, resolution 0.20 m) provided under Copernicus by CGR, Compagnia Generale Ripresearee (S.P.A.), all rights reserved. This image is used as background image.
All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015, Corine Land Cover (CLC) 2018, EuroBoundaryMap 2017 © EuroGeographics.

Population data: GHS Population Grid © European Commission, 2022
https://ghsl.jrc.ec.europa.eu/ghs_pop2022.php

The thematic layer has been derived from post-event satellite image using 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.

Map produced by Planetek Hellas released by e-GEOS on the 08/05/2023.

Details on this activation and service conditions available through the QR code or at the link:
<https://emergency.copernicus.eu/EMS/R659>



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EMSR659 AOI: 04 Idice-Molinella Grading

Consequences within the AOI								
	Unit of measurement			Destroyed	Damaged	Possibly damaged*	Total affected**	Total in AOI
Flooded area		ha						823.9
Estimated population	Number of inhabitants						~ 100	~ 2,700
Built-up	Industrial buildings	No.		0	1	0	1	28
	Buildings used as places of worship and for religious activities	No.		0	0	0	0	4
	Unclassified	No.		0	30	5	35	998
Transportation	Secondary Road	km		0.0	0.0	0.0	0.0	12.7
	Local Road	km		0.0	0.0	0.0	0.0	25.1
	Cart Track	km		0.0	0.0	16.5	16.5	85.7
Facilities	Settling Basin	ha		0.0	0.0	0.0	0.0	0.2
	Sport and recreation constructions	ha		0.0	0.0	3.0	3.0	19.1
	Other civil engineering works not elsewhere classified	ha		0.0	0.0	0.0	0.0	0.6
	Long-distance pipelines, communication and electricity lines	km		0.0	0.0	0.0	0.0	25.9
	Local pipelines and cables	km		0.0	0.0	0.0	0.0	2.8
			Very high damage	High damage	Moderate damage	Negligible to slight damage	Total affected**	Total in AOI
Land use	Arable land	ha	NA	NA	NA	NA	742.7	4,655.3
	Inland wetlands	ha	NA	NA	NA	NA	80.3	475.1
	Forests	ha	NA	NA	NA	NA	0.9	42.3
	Permanent crops	ha	NA	NA	NA	NA	0.0	4.8
	Heterogeneous agricultural areas	ha	NA	NA	NA	NA	0.0	83.3
	Other	ha	NA	NA	NA	NA	0.0	81.9
<p>* Presence of damage proxies and proximity with destroyed/damaged asset</p> <p>** Sum of all damage classes</p>								

Disclaimer:

Full disclaimer and other helpful information available in the online manual:

<https://emergency.copernicus.eu/mapping/ems/online-manual-rapid-mapping-products>

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