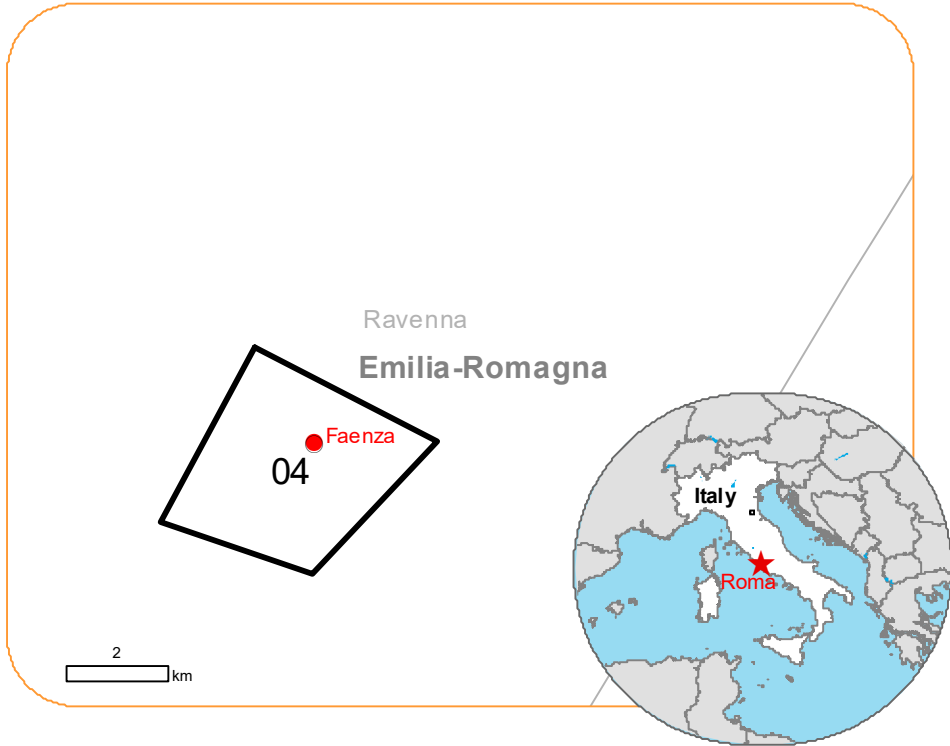



Situation as of 21/05/2023 10:08 and 10:34 UTC
Grading - Overview map 01




 **Flooded area 104.5 ha**
Flood trace 88.2 ha


 **Potentially affected population ~ 3900**


Affected Built-up and Transportations

 **Built-Up 547 No.**



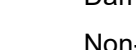


 **Road 10.9 km**

Crisis Information


 **Flooded Area**

 **Flood trace**





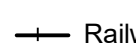

Built-Up Grading

-  Residential Building, Damaged
-  Non residential Building, Damaged
-  Non-residential Building, Possibly damaged
-  Unclassified Building, Damaged
-  Unclassified Building, Possibly damaged


Facilities Grading


 Possibly damaged

Transportation Grading

-  Road, Damaged
-  Road, Possibly damaged
-  Main road, No visible damage
-  Local road, No visible damage
-  Track, No visible damage
-  Railway, No visible damage

General Information

 **Area of Interest**

 **Not Analysed**

Placenames

 Placename

Hydrography

-  River
-  Stream
-  Lake
-  Reservoir
-  River

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:

Emilia-Romagna region in Italy. The same area was faced with floods already on 2 May 2023, which resulted in three deadly victims. These rains also caused landslides in the areas of the middle Apennines, which have left hundred people displaced. On 16 May 2023, a new perturbation has raised river levels again. The hydrometric threshold was reached in the basins of the Idice, Sarnoglia, Savio, Marzeno, Volturno, Marecchia, Pisciatello, Ausa and Montone rivers. New floods are expected in the areas as well as possible evacuations. Copernicus EMS Rapid Mapping is requested to provide initial rough estimation, flood and landslide extent identification and monitoring.

Data sources and analysis: Pre-event image: ESRI World Imagery © DigitalGlobe (acquired on 29/10/2021, resolution 0.5 m). Post-event image: Pleiades-1A/B © CNES (2023), distributed by Airbus DS (acquired on 21/05/2023 at 10:34 UTC, resolution 0.5 m). This image is used as background image. WorldView-2 © Maxar Technologies, Inc. (2023), (acquired on 21/05/2023 at 10:08 UTC, resolution 0.5 m). 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, 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, 2022 https://ghsl.jrc.ec.europa.eu/ghs_pop2022.php

The thematic layer has been derived from post-event satellite image by means of visual interpretation. "Not analysed" indicates an area that could not be analysed in any of the post-event images. 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 GAF AG released by e-GEOS on the 21/05/2023.

Details on this activation and service conditions available through the QR code or at the link: <https://emergency.copernicus.eu/EMSR664>



EMSR664 AOI: 04 Faenza Grading

Consequences within the AOI								
	Unit of measurement			Destroyed	Damaged	Possibly damaged*	Total affected**	Total in AOI
Flooded area		ha						104.5
Flood trace		ha						88.2
Estimated population	Number of inhabitants						~ 3,900	~ 36,000
Built-up	Residential Buildings	No.		0	17	0	17	82
	Office buildings	No.		0	0	0	0	1
	Wholesale and retail trade buildings	No.		0	0	0	0	9
	Industrial buildings	No.		0	7	0	7	139
	Public entertainment buildings	No.		0	0	0	0	2
	School, university and research buildings	No.		0	0	0	0	27
	Hospital or institutional care buildings	No.		0	0	0	0	2
	Non-residential farm buildings	No.		0	0	0	0	3
	Buildings used as places of worship and for religious activities	No.		0	2	1	3	26
	Historic or protected monuments	No.		0	0	0	0	1
	Cemetery	No.		0	1	0	1	2
	Communication buildings, stations, terminals and associated buildings	No.		0	0	0	0	3
	Unclassified	No.		0	456	63	519	3,358
Transportation	Primary Road	km		0.0	0.0	0.1	0.1	20.4
	Secondary Road	km		0.0	0.0	0.0	0.0	7.7
	Local Road	km		0.0	0.5	8.1	8.6	91.8
	Cart Track	km		0.0	0.7	1.5	2.2	25.1
	Long-distance railways	km		0.0	0.0	0.0	0.0	24.9
Facilities	Settling Basin	ha		0.0	0.0	0.3	0.3	0.7
	Constructions for mining or extraction	ha		0.0	0.0	1.0	1.0	1.0
	Sport and recreation constructions	ha		0.0	0.0	15.6	15.6	69.1
	Long-distance pipelines, communication and electricity lines	km		0.0	0.0	0.0	0.0	3.5
	Local pipelines and cables	km		0.0	0.0	0.0	0.0	1.4
			Very high damage	High damage	Moderate damage	Negligible to slight damage	Total affected**	Total in AOI
Land use	Heterogeneous agricultural areas	ha	NA	NA	NA	NA	121.6	995.5
	Other	ha	NA	NA	NA	NA	69.0	1,331.8
	Forests	ha	NA	NA	NA	NA	33.8	211.5
	Shrub and/or herbaceous vegetation association	ha	NA	NA	NA	NA	5.6	42.7
	Arable land	ha	NA	NA	NA	NA	2.2	56.6
* Presence of damage proxies and proximity with destroyed/damaged asset								
** Sum of all damage classes								

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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