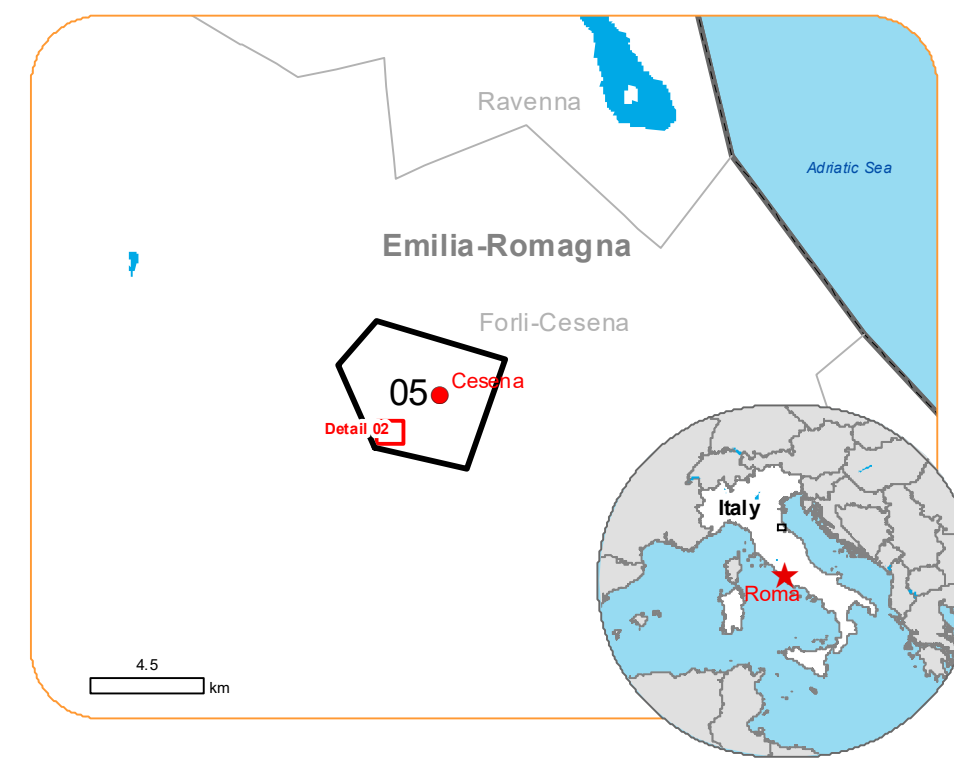


EMSR664 - AOI05  
Flood in Italy  
CESENA

Situation as of 22/05/2023 10:18 UTC  
Grading - Overview map 01



Flooded area 15.0 ha  
Flood trace 1.3 ha

Potentially affected population ~ 20

Potentially Affected Built-up and Transportations

Road  
0.2 km

Built-up  
6 No.

**Crisis Information**

- Flooded Area
- Flood trace

**Built Up Grading**

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

**Facilities Grading**

- Damaged

**Transportation Grading**

- Road, Destroyed
- Bridge, elevated highway, tunnel and subway, Destroyed

**No visible damage**

- Highway, No visible damage
- Main road, No visible damage
- Local road, No visible damage
- Track, No visible damage
- Railway, No visible damage
- Airfield and Heliport, No visible damage

**General Information**

- Area of Interest
- Detail map

**Placenames**

- Placename

**Hydrography**

- River
- Lake
- Reservoir
- River

**Transportation**

- Highway
- Main road
- Local road
- Track
- Railway
- Bridge and elevated highway

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

**Event:** A new wave of severe weather has hit again the areas in southeastern Emilia-Romagna region that were already flooded on 2 May 2023 when three people lost their life. The rains are favoring the movement of landslides in these areas of the middle Apennines already affected, where previously several hundred people were displaced. On 16 May 2023 at 11:00 the new perturbation has again raised river levels and hydrometric threshold was reached in the basins of the Idice, Samoggia, Savio, Marzeno, Voltre, Marecchia, Pisciatello, Ausa, and Montone rivers. New overflows are expected in the areas as well as possible evacuations. Copernicus EMS Rapid Mapping is requested to provide initial rough estimation, flood and

**Data sources and analysis:** Pre-event image: Pléiades-1A/B © CNES (2022), distributed by Airbus DS (acquired on 03/07/2022 at 10:11 UTC, resolution 0.5 m)  
Post-event image: Pléiades Neo © CNES (2023), distributed by Airbus DS (acquired on 22/05/2023 at 10:18 UTC, resolution 0.3 m). This image is used as background image.  
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Population data: GHS Population Grid © European Commission, 2022  
[https://ghsl.jrc.ec.europa.eu/ghs\\_pop2022.php](https://ghsl.jrc.ec.europa.eu/ghs_pop2022.php)

The thematic layer has been derived by means of visual interpretation. The scale of analysis is 1:10,000. 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 Telespazio Iberica released by e-GEOS on the 23/05/2023.

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

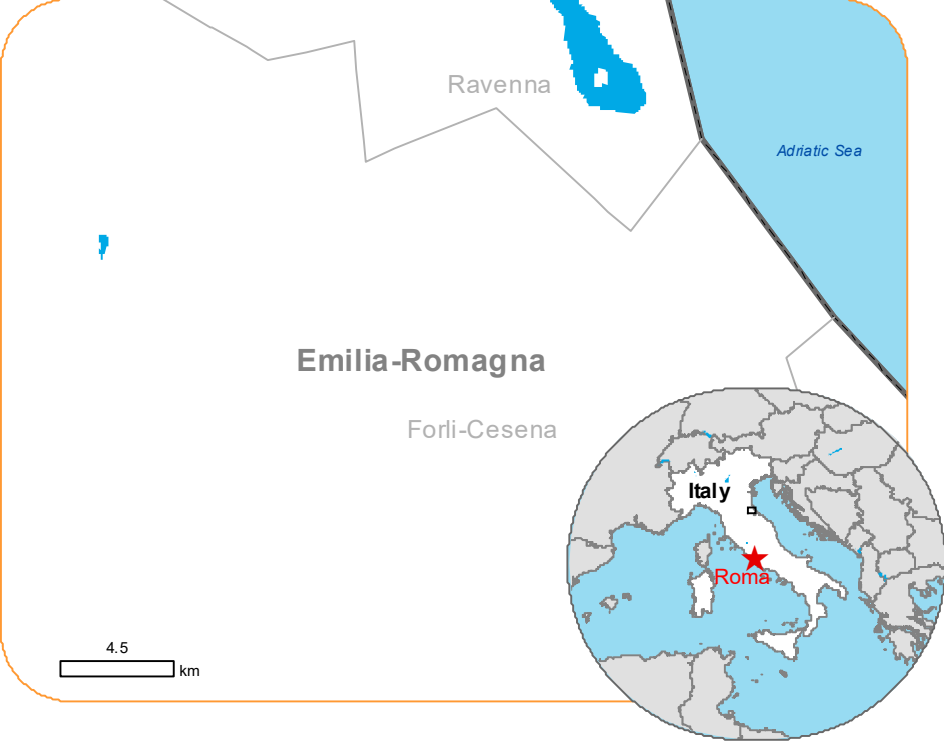






 **EMSR664 - AOI05**  
**Flood in Italy**  
**CESENA**

**Situation as of 22/05/2023 10:18 UTC**  
Grading - Detail map 02



 **Flooded area 7.2 ha**  
**Flood trace 1.3 ha**  
**48.0 % and 100 % of total**  
**in AOI respectively**

 **Potentially affected population ~ 0**  
**0 % of total affected**

**Potentially Affected Built-up and Transportations**

 **Road 0.1 km**  
**50 % of total affected**

 **Built-Up 5 No.**  
**83.33 % of total affected**

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EMSR664 AOI: 05 Cesena Grading

Consequences within the AOI								
	Unit of measurement			Destroyed	Damaged	Possibly damaged*	Total affected**	Total in AOI
Flooded area		ha						15.0
Flood trace		ha						1.3
Estimated population	Number of inhabitants						~ 20	~ 40,000
Built-up	Residential Buildings	No.		2	1	1	4	9,905
	Wholesale and retail trade buildings	No.		0	0	0	0	17
	Industrial buildings	No.		0	0	2	2	533
	Reservoirs, silos and warehouses	No.		0	0	0	0	37
	Public entertainment buildings	No.		0	0	0	0	1
	School, university and research buildings	No.		0	0	0	0	21
	Hospital or institutional care buildings	No.		0	0	0	0	13
	Buildings used as places of worship and for religious activities	No.		0	0	0	0	63
	Communication buildings, stations, terminals and associated buildings	No.		0	0	0	0	3
Transportation	Garage buildings	No.		0	0	0	0	1
	Helipad	ha		0.0	0.0	0.0	0.0	0.1
	Bridges and elevated highways	km		0.0	0.0	0.0	0.0	0.0
	Highways	km		0.0	0.0	0.0	0.0	27.5
	Primary Road	km		0.0	0.0	0.0	0.0	5.7
	Secondary Road	km		0.0	0.0	0.0	0.0	19.6
	Local Road	km		0.1	0.0	0.0	0.1	160.7
	Cart Track	km		0.0	0.0	0.0	0.0	80.3
Facilities	Long-distance railways	km		0.0	0.0	0.0	0.0	10.8
	Constructions for mining or extraction	ha		0.0	5.0	0.0	5.0	5.0
	Sport and recreation constructions	ha		0.0	27.1	0.0	27.1	101.3
	Long-distance pipelines, communication and electricity lines	km		0.0	0.0	0.0	0.0	9.9
			Very high damage	High damage	Moderate damage	Negligible to slight damage	Total affected**	Total in AOI
Land use	Other	ha	NA	NA	NA	NA	7.6	1,053.7
	Arable land	ha	NA	NA	NA	NA	7.0	109.8
	Heterogeneous agricultural areas	ha	NA	NA	NA	NA	1.8	1,364.7
<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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PROGRAMME OF THE  
EUROPEAN UNION

