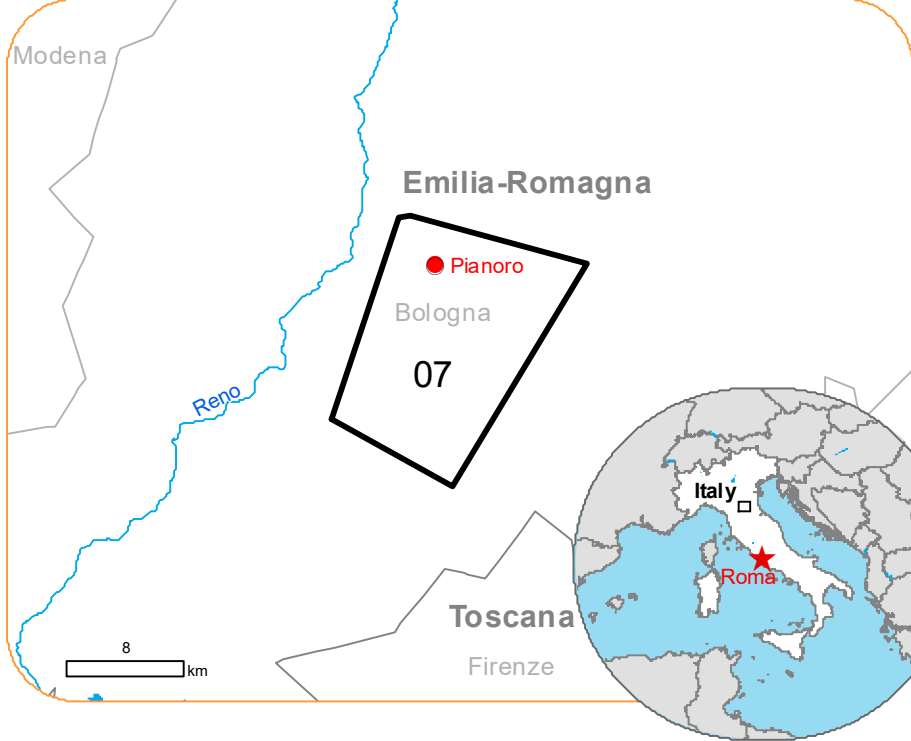




Situation as of 06/05/2023 10:00 UTC
Grading - Overview map 01



Affected Transportations



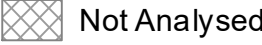
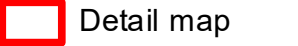
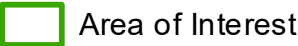
Crisis Information



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
- Airfield and Heliport, No visible damage

General Information



Administrative boundaries



Placenames



Hydrography



All data displayed on the map(s), as well as the Physiography and Land Use - Land Cover layers, are 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 on-going with river levels very high, the breaking of the Silaro 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: WorldView-2© Maxar Technologies, Inc. (2022), (acquired on 30/04/2022 at 10:02 UTC, resolution 0.4 m).

WorldView-2© Maxar Technologies, Inc. (2021), (acquired on 07/08/2021 at 10:14 UTC, resolution 0.4 m).

WorldView-3© Maxar Technologies, Inc. (2022), (acquired on 25/02/2022 at 10:04 UTC, resolution 0.4 m).

Post-event image: Pléiades-1A/B © CNES (2023), distributed by Airbus DS (acquired on 06/05/2023 at 10:00 UTC, resolution 0.5 m). This image is used as background image.

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Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015, Corine Land Cover (CLC) 2018, EuroBoundaryMap 2017 © EuroGeographics, Inset maps: JRC 2013, GISCO 2010 © EuroGeographics, Natural Earth 2012, CCM River DB © EUJRC2007, GeoNames 2015.

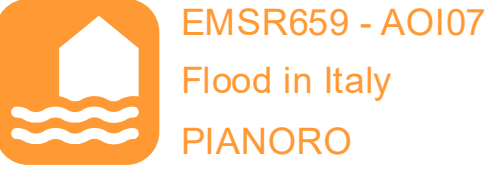
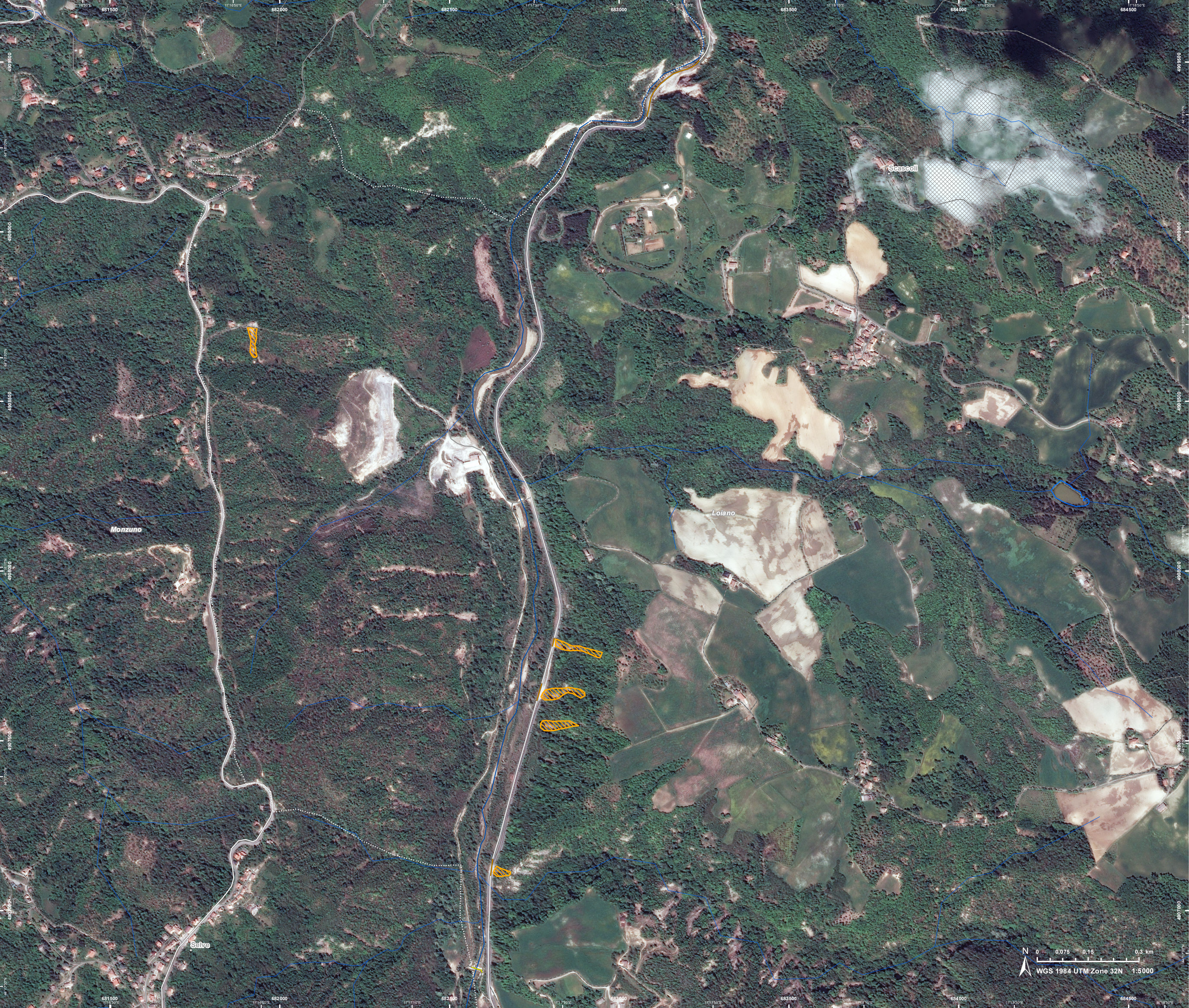
Population data: GHS Population Grid © European Commission, 2022 https://ghsl.jrc.ec.europa.eu/ghs_pop2022.php

The thematic layer has been derived from post-event satellite image by means of visual interpretation. 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.

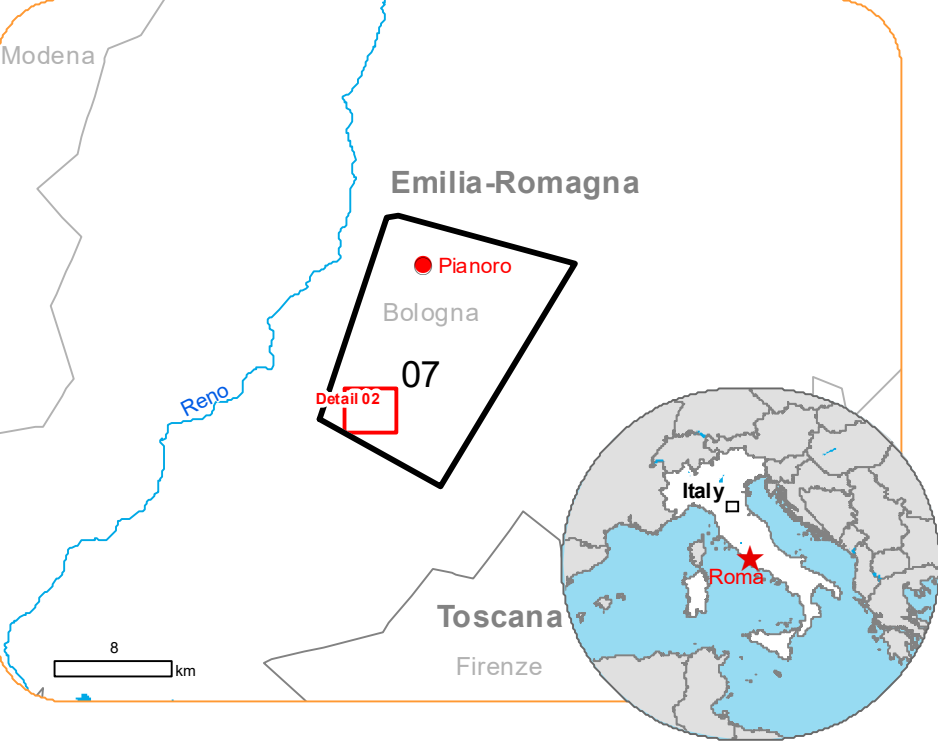
Map produced by CLS released by e-GEOS on the 07/05/2023.

Details on this activation and service conditions available through the QR code or at the link: <https://emergency.copernicus.eu/EMSR659>





Situation as of 06/05/2023 10:00 UTC
Grading - Detail map 02



Landslide 1 ha
77% of potentially affected

Affected Transportations
Road
0.4 km
60% of potentially affected

Crisis Information

- Landslide

Transportation Grading

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

General Information

- Area of Interest
- Not Analysed

Administrative boundaries

- Municipality

Placenames

- Placename

Hydrography

- River
- Stream
- Lake

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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 on-going 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.

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WorldView-3© Maxar Technologies, Inc. (2022), (acquired on 25/02/2022 at 10:04 UTC, resolution 0.4 m).
Post-event image: Pléiades-1A/B © CNES (2023), distributed by Airbus DS (acquired on 06/05/2023 at 10:00 UTC, resolution 0.5 m). This image is used as background image.
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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.
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.

EMSR659 AOI: 07 Pianoro Grading

Consequences within the AOI								
	Unit of measurement			Destroyed	Damaged	Possibly damaged*	Total affected**	Total in AOI
Landslide		ha						1,3
Estimated population	Number of inhabitants						NA	~ 21 000
Transportation	Primary Road	km		0,0	0,0	0,0	0,0	0,0
	Secondary Road	km		0,0	0,4	0,1	0,5	0,5
	Cart Track	km		0,0	0,0	0,2	0,2	0,2
			Very high damage	High damage	Moderate damage	Negligible to slight damage	Total affected**	Total in AOI
Land use	Forests	ha	NA	NA	NA	NA	1,1	7 513,1
	Heterogeneous agricultural areas	ha	NA	NA	NA	NA	0,2	5 930,1
	Arable land	ha	NA	NA	NA	NA	0,0	2 971,3
	Pastures	ha	NA	NA	NA	NA	0,0	26,1
	Shrub and/or herbaceous vegetation association	ha	NA	NA	NA	NA	0,0	879,2
	Open spaces with little or no vegetation	ha	NA	NA	NA	NA	0,0	7,4
	Other	ha	NA	NA	NA	NA	0,0	807,6
<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

