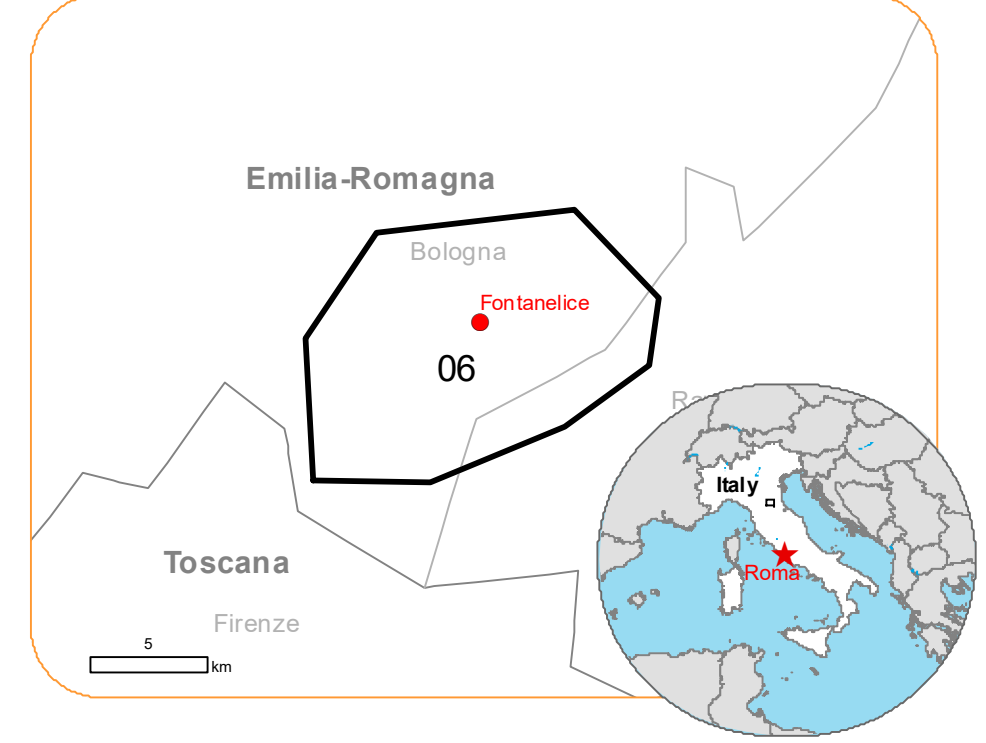




EMSR659 - AOI06
Flood in Italy
FONTANELICE

Situation as of 06/05/2023 09:42 UTC
Grading - Overview map 01






Flood trace
87.6
Landslide
0.2




Potentially affected
population
~ 10

Affected Built-up and Transportations





Road
2.7 km

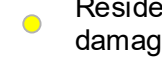


Built-up
12 No.


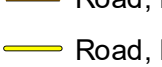

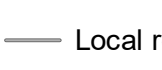
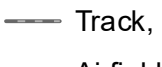


Crisis Information

-  Landslide
-  Flood trace


Built-Up Grading

-  Residential Building, Possibly damaged

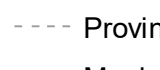

Transportation Grading

-  Road, Destroyed
-  Road, Damaged
-  Road, Possibly damaged
- No visible damage**
 -  Main road, No visible damage
 -  Local road, No visible damage
 -  Track, No visible damage
 -  Airfield and Heliport, No visible damage


General Information

-  Area of Interest


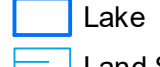

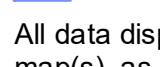
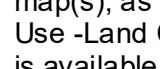
Administrative boundaries

-  Province
-  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 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: ESRI World Imagery © DigitalGlobe (acquired on 21/05/2022, resolution 0.6 m). Post-event image: Pléiades-1A/B © CNES (2023), distributed by Airbus DS (acquired on 06/05/2023 at 09:42 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 (current year), 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 e-GEOS released by e-GEOS on the 07/05/2023.

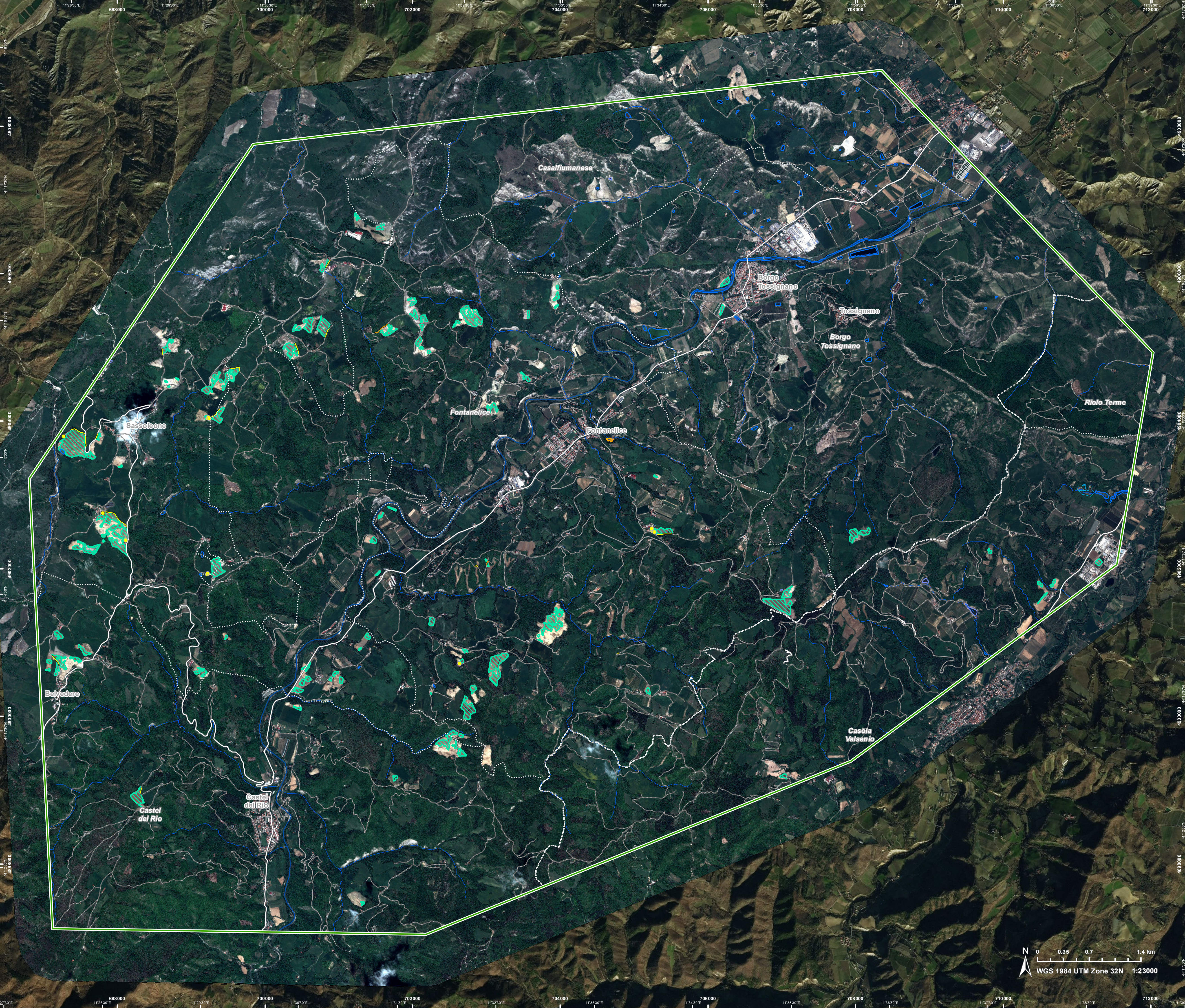
Details on this activation and service conditions available through the QR code or at the link: <https://emergency.copernicus.eu/EMSR659>



PROGRAMME OF THE
EUROPEAN UNION



Copernicus
Europe's eyes on Earth



EMSR659 AOI: 06 Fontanelice Grading

Consequences within the AOI								
	Unit of measurement			Destroyed	Damaged	Possibly damaged*	Total affected**	Total in AOI
Landslide		ha						0.2
Flood trace		ha						87.6
Estimated population	Number of inhabitants						~ 10	~ 6,400
Built-up	Residential Buildings	No.		0	0	10	10	10
	Other non-residential buildings	No.		0	0	2	2	2
Transportation	Airfield runways	ha		0.0	0.0	0.0	0.0	3.4
	Secondary Road	km		0.0	0.0	0.2	0.2	0.2
	Local Road	km		0.0	0.0	0.9	0.9	0.9
	Cart Track	km		0.0	0.3	1.2	1.5	1.5
Facilities	Dams	km		0.0	0.0	0.0	0.0	0.1
			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	52.8	5,558.0
	Arable land	ha	NA	NA	NA	NA	30.5	1,764.6
	Forests	ha	NA	NA	NA	NA	2.1	3,870.6
	Permanent crops	ha	NA	NA	NA	NA	1.3	514.8
	Shrub and/or herbaceous vegetation association	ha	NA	NA	NA	NA	0.6	1,211.9
	Other	ha	NA	NA	NA	NA	0.5	152.6
	Open spaces with little or no vegetation	ha	NA	NA	NA	NA	0.0	194.3
* 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>

© European Union / Copernicus Emergency Management Service



PROGRAMME OF THE
EUROPEAN UNION

