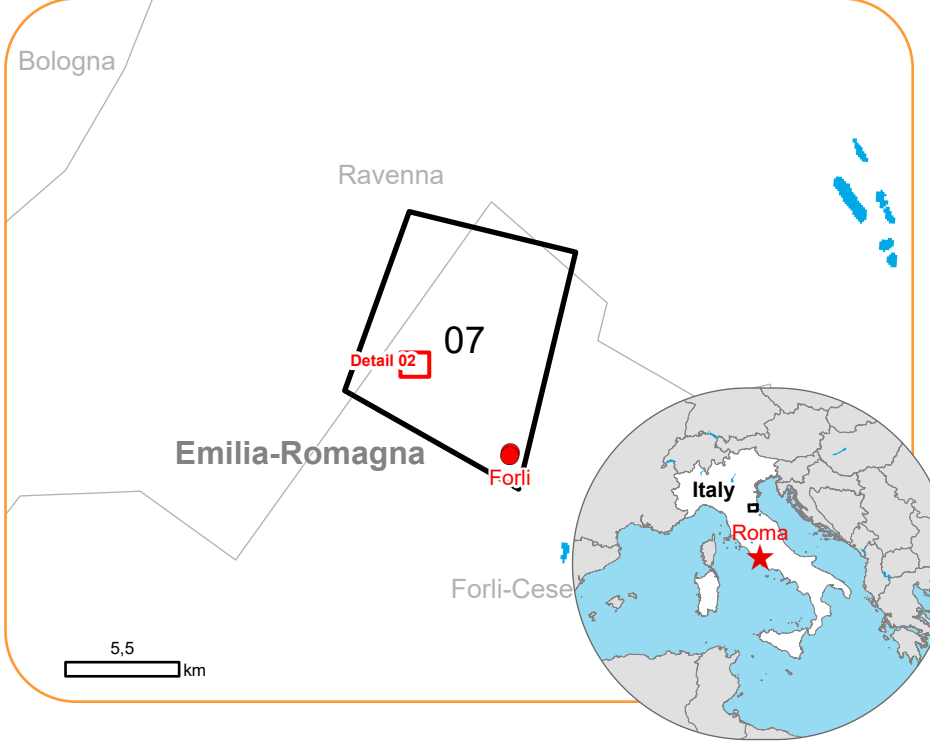


Situation as of 25/09/2024 10:01 UTC
Grading - Overview map 01



Flood trace
81.3 ha

Potentially affected
population
~ 100

Affected Built-up and Transportations

Built-up
7 No.

Road
0.5 km

- Crisis Information**
- Flood trace
- Built Up Grading**
- Possibly damaged
- Transportation Grading**
- Highway, No visible damage
 - Main road, No visible damage
 - Local road, No visible damage
 - Track, No visible damage
 - Railway, No visible damage
 - Airfield runway, No visible damage
- General Information**
- Airfield and Heliport, No visible damage
 - Area of Interest
 - Detail map
 - Not Analysed
- Administrative Boundaries**
- Province
- Placenames**
- Placename
- Hydrography**
- Lake, River

Event: Since the early morning of 18 September 2024, intense rainfall is affecting the Emilia-Romagna region in Italy. The situation is ongoing with several rivers at red alert level and local floods are reported in some areas of Rimini, Brisighella and Cesena. Flooding is foreseen in several areas in the next hours. Copernicus EMS Rapid Mapping is requested to provide estimation of flood extents, and damage assessment emergency mapping.

Data sources and analysis: Pre-event image: GeoEye © Maxar Technologies, Inc (2024) (acquired on 23/05/2024 at 10:24 UTC, resolution 0.5 m).
Post-event image: GeoEye © Maxar Technologies, Inc (2024) (acquired on 25/09/2024 at 10:01 UTC, resolution 0.5 m). This image is used as background image.
All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

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

This analysis has been supplemented by the social media.

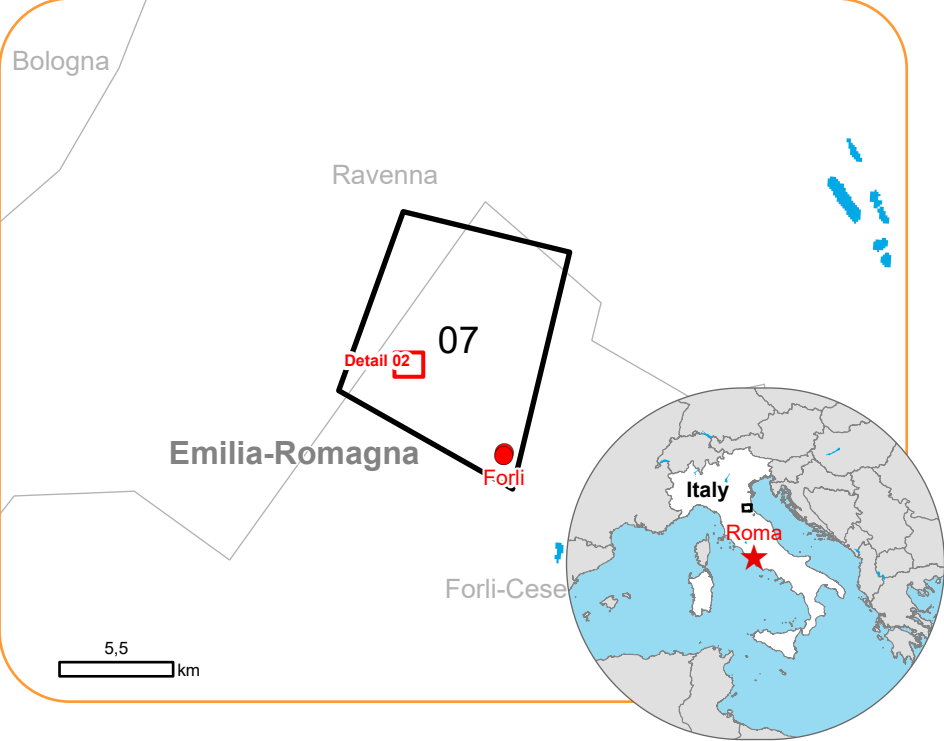
Map produced by CLS released by e-GEOS on the 26/09/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR762>





Situation as of 25/09/2024 10:01 UTC
Grading - Detail map 02



Crisis Information

Flood trace

Built Up Grading

Possibly damaged

Transportation Grading

Main road, No visible damage

Local road, No visible damage

Track, No visible damage

General Information

Area of Interest

Event: Since the early morning of 18 September 2024, intense rainfall is affecting the Emilia-Romagna region in Italy. The situation is ongoing with several rivers at red alert level and local floods are reported in some areas of Rimini, Brisighella and Cesena. Flooding is foreseen in several areas in the next hours. Copernicus EMS Rapid Mapping is requested to provide estimation of flood extents, and damage assessment emergency mapping.

Data sources and analysis: Pre-event image: GeoEye © Maxar Technologies, Inc (2024) (acquired on 23/05/2024 at 10:24 UTC, resolution 0.5 m). Post-event image: GeoEye © Maxar Technologies, Inc (2024) (acquired on 25/09/2024 at 10:01 UTC, resolution 0.5 m). This image is used as background image. All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

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

This analysis has been supplemented by the social media.

Map produced by CLS released by e-GEOS on the 26/09/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR762>



Consequences within the AOI						
	Unit of measurement	Destroyed	Damaged	Possibly damaged*	Total affected**	Total in AOI
Flood trace	ha					81,3
Estimated population	Number of inhabitants				~ 100	~ 60 000
Built-up	Residential Buildings	No.	0	0	5	167
	Office buildings	No.	0	0	0	4
	Institutional	No.	0	0	0	4
	Wholesale and retail trade buildings	No.	0	0	0	20
	Industrial buildings	No.	0	0	0	15
	Reservoirs, silos and warehouses	No.	0	0	0	691
	Public entertainment buildings	No.	0	0	0	4
	Museums and libraries	No.	0	0	0	4
	School, university and research buildings	No.	0	0	0	12
	Non-residential farm buildings	No.	0	2	2	1 265
	Buildings used as places of worship and for religious activities	No.	0	0	0	192
	Historic or protected monuments	No.	0	0	0	5
	Other buildings not elsewhere classified	No.	0	0	0	3
	Hotel buildings	No.	0	0	0	7
	Communication buildings, stations, terminals and associated buildings	No.	0	0	0	8
	Garage buildings	No.	0	0	0	1
	Unclassified	No.	0	0	0	20 158
Transportation	Airfield runways	ha	0	0	0	4,9
	Airfield runways	km	0	0	0	0,5
	Highways	km	0	0	0	34,2
	Primary Road	km	0	0	0	9,6
	Secondary Road	km	0	0	0	30,9
	Local Road	km	0	0	0	203,7
	Cart Track	km	0	0	0	173,6
	No Driveway	km	0	0	0,5	0,5
	Long-distance railways	km	0	0	0	28,0
Facilities	Power plant constructions	ha	0	0	0	6,8
	Sport and recreation constructions	ha	0	0	0	56,0
	Long-distance pipelines, communication and electricity lines	km	0	0	0	56,4
	Local pipelines and cables	km	0	0	0	2,3
Land use	Arable land	ha			44,1	2 899,6
	Heterogeneous agricultural areas	ha			35,0	5 402,5
	Other	ha			2,1	998,2
* 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

Data Access:

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

Estimated Population:

Estimated population is based on Copernicus Global Human Settlement Layer (GHSL) dataset. Additional population datasets and analysis are available in the summary table.

Data Sources:

Base Vector Layers: OpenStreetMap © OpenStreetMap contributors (2024), 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.
 Digital Elevation Model: COP-DEM-EEA-10-R product © DLR e.V. (2014-2018) and
 © Airbus Defence and Space GmbH (2020) provided under COPERNICUS by the European Union and ESA, all rights reserved.

Access to the portal



PROGRAMME OF THE
EUROPEAN UNION

