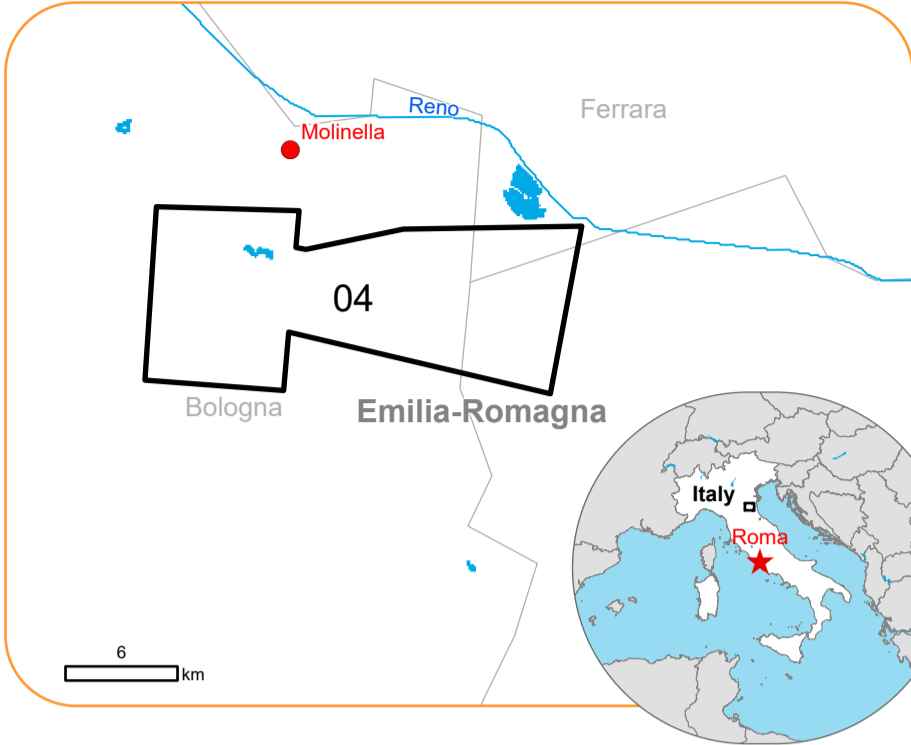




Situation as of 22/09/2024 07:00 UTC
Grading - Overview map 01



Flooded area 604.3 ha
Potentially affected population ~ 40

Affected Built-up and Transportations

Built-Up 28 No.
Road 23.6 km

- Crisis Information**
- Flooded Area
 - Flood trace
- Built Up Grading**
- Possibly damaged
- Facilities Grading**
- Damaged
- Transportation Grading**
- Road, Destroyed
 - 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**
- Airfield runway, No visible damage
 - Navigable canal, No visible damage
 - Harbour, waterway and other waterwork, No visible damage
 - Area of Interest
 - Image Footprint
 - Not Analysed
- Administrative Boundaries**
- Province
 - Municipality
- 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: Pléiades-1A © CNES (2024), distributed by Airbus DS (acquired on 07/05/2023 at 09:51 UTC, resolution 0.5 m). Post-event image: Aerial data (2024), provided by Copernicus Emergency Management Service (CEMS) (acquired on 22/09/2024 at 07:00 UTC, resolution 0.1 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.

Map produced by Telespazio Iberica released by e-GEOS on the 25/09/2024.

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					1.5
Flooded area		ha					604.3
Estimated population	Number of inhabitants					~ 40	~ 11,000
Built-up	Residential Buildings	No.	0	0	24	24	4,707
	Industrial buildings	No.	0	0	3	3	61
	Reservoirs, silos and warehouses	No.	0	0	0	0	7
	Other non-residential buildings	No.	0	0	1	1	171
	Buildings used as places of worship and for religious activities	No.	0	0	0	0	8
	Other buildings not elsewhere classified	No.	0	0	0	0	1
Transportation	Navigable canals	ha	0	0	0	0	0.2
	Airfield runways	km	0	0	0	0	0.5
	Navigable canals	km	0	0	0	0	0.4
	Primary Road	km	0	0	0	0	9.8
	Secondary Road	km	0	0	0	0	32.1
	Local Road	km	0	0	0	0	92.0
	Cart Track	km	19.1	2.7	1.8	23.6	331.3
	Long-distance railways	km	0	0	0	0	4.5
Facilities	Settling Basin	ha	0	0	0	0	0.2
	Power plant constructions	ha	0	0	0	0	13.1
	Sport and recreation constructions	ha	0	3.0	0	3.0	39.3
	Other civil engineering works not elsewhere classified	ha	0	0	0	0	4.9
	Long-distance pipelines, communication and electricity lines	km	0	0	0	0	60.8
	Local pipelines and cables	km	0	0	0	0	5.2
Land use	Arable land	ha				577.6	14,790.8
	Inland wetlands	ha				27.3	1,059.8
	Forests	ha				0.9	42.3
	Permanent crops	ha				0	337.8
	Heterogeneous agricultural areas	ha				0	1,189.0
	Other	ha				0	155.3
* Presence of damage proxies and proximitywith 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 the Physiography and Land Use - Land Cover layers, 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: SRTM (90 m) or (30 m) (NASA/USGS) or 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.
 FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus,2020).

Global Administrative Areas (2012), refined by the producer, Globe Land 30 (2010), Copernicus Global Land Service: Land Cover (2019).
 Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2015.
 Digital Elevation Model: FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus,2020)

Access to the portal

