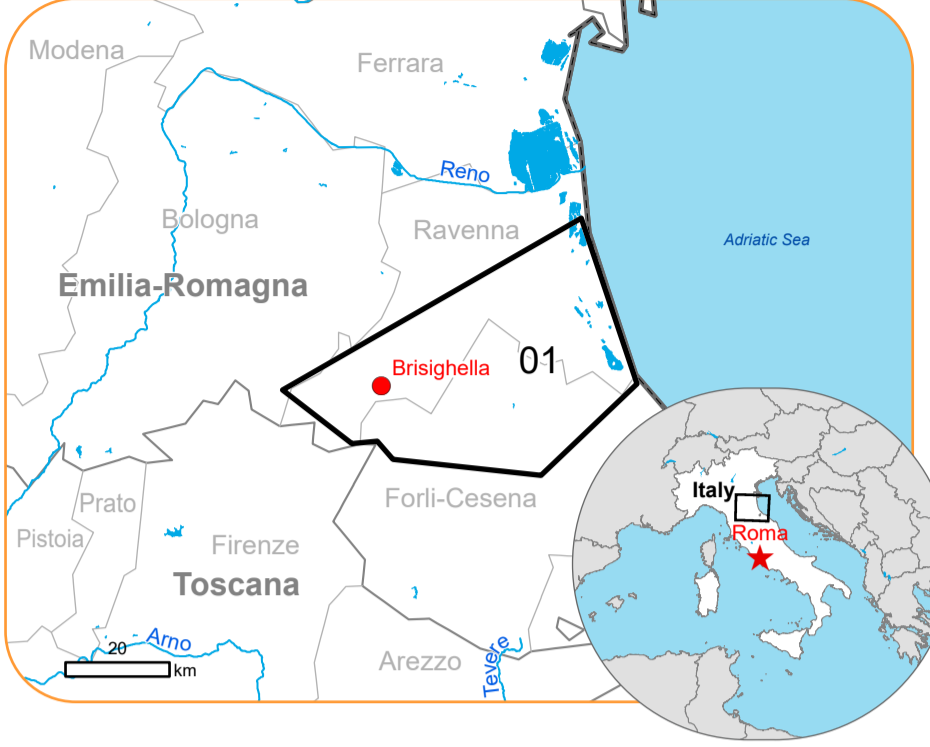




Situation as of 20/09/2024 05:27 UTC  
Delineation - Overview map 01



Flooded area 119.0 ha  
Potentially affected population ~ 20

Potentially Affected Built-up and Transportations

Built-Up 0.9 ha  
Road 0.2 km

Estimated flood depth (m)	Hydrography	
<div>Below 0.50</div>	<div>Lake, River</div>	
<div>0.50 - 1.00</div>		
<div>1.00 - 2.00</div>		
<div>2.00 - 4.00</div>		
General Information	Facilities	
<div>Area of Interest</div>	<div>Long-distance pipelines or lines</div>	
<div>Detail map</div>	<div>Local pipelines or lines</div>	
Administrative Boundaries	<div>Water or Aquatic infrastructure</div>	
<div>Region</div>	<div>Mining or extraction site</div>	
<div>Province</div>	<div>Water Well</div>	
<div>Municipality</div>	<div>Power plant</div>	
Placenames	<div>Sport and recreation constructions</div>	
<div>Placename</div>	<div>Dump Site</div>	
Built-Up Area	<div>Water or Aquatic infrastructure</div>	
<div>Residential</div>	<div>Dam</div>	
<div>Non residential</div>	<th>Transportation</th>	Transportation
<div>School, university and research buildings</div>	<div>Highway</div>	
<div>Hospital or institutional care buildings</div>	<div>Main road</div>	
<div>Military</div>	<div>Railway</div>	
	<div>Airfield runway</div>	
	<div>Airfield</div>	
	<div>Helipad</div>	

**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: Sentinel-2A/B (2024) (acquired on 10/08/2024 at 10:05 UTC, resolution 10.0 m). This image is used as background image.  
Post-event image: PAZ satellite image © Hisdesat Servicios Estratégicos S.A., 2024 (acquired on 20/09/2024 at 05:27 UTC, resolution 18.5 m). 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 using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

The flood depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

Map produced by e-GEOS released by e-GEOS on the 20/09/2024.

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

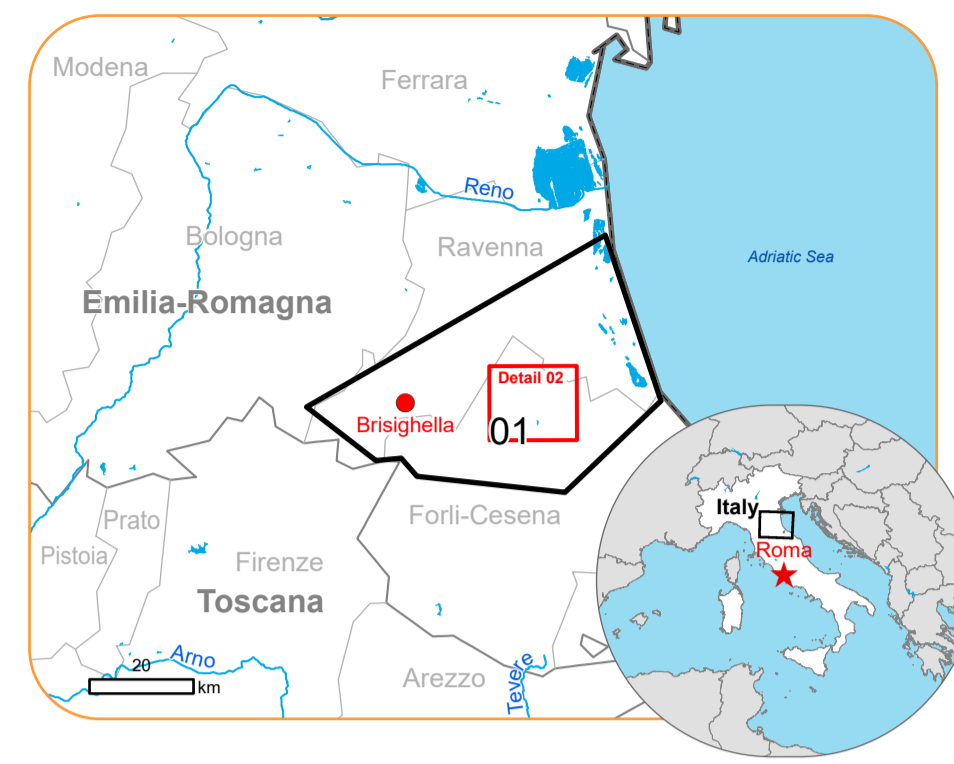






**EMSR762 - AOI01**  
Flood in Italy  
**BRISIGHELLA**

**Situation as of 20/09/2024 05:27 UTC**  
Delineation - Detail map 02



- Estimated flood depth (m)**

  - Below 0.50
  - 0.50 - 1.00
  - 1.00 - 2.00

**General Information**

  - Area of Interest

**Administrative Boundaries**

  - Province
  - Municipality

**Placenames**

  - Placename

**Built-Up Area**

  - Residential
  - Non residential
  - School, university and research buildings
  - Hospital or institutional care buildings
  - Military
- Hydrography**

  - Lake, River

**Facilities**

  - Long-distance pipelines or lines
  - Local pipelines or lines
  - Mining or extraction site
  - Power plant
  - Sport and recreation constructions
  - Water or Aquatic infrastructure

**Transportation**

  - Highway
  - Main road
  - Railway
  - Airfield runway
  - Airfield
  - Helipad

**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.

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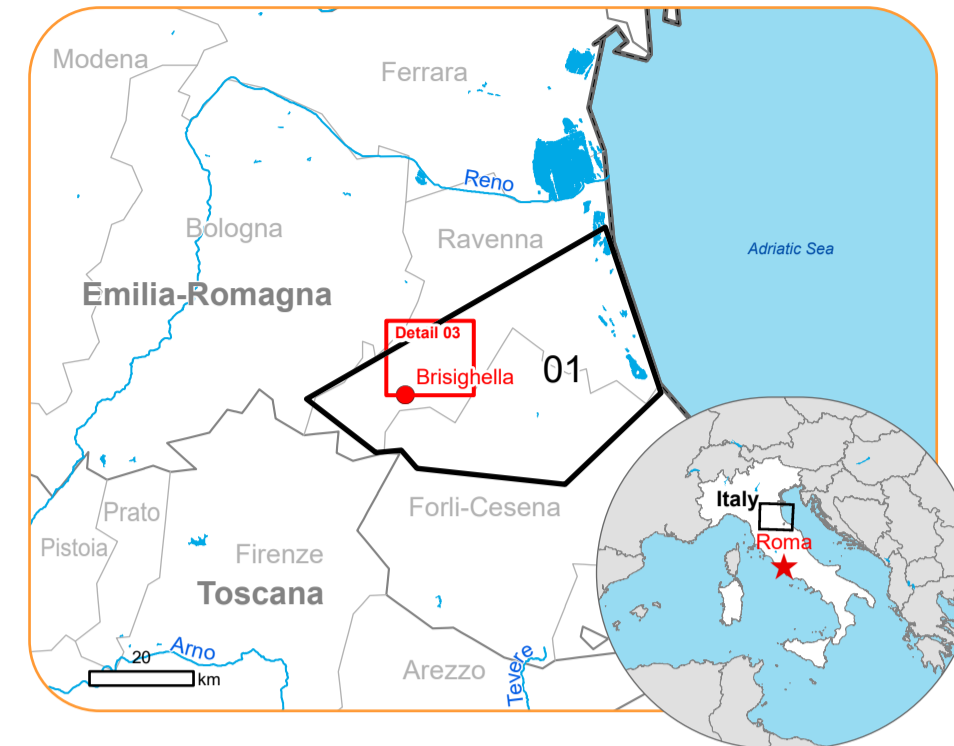
The flood depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

Map produced by e-GEOS released by e-GEOS on the 20/09/2024.

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 20/09/2024 05:27 UTC  
Delineation - Detail map 03



- |   |                                    |
|---|------------------------------------|
| <b>Estimated flood depth (m)</b>          | <b>Hydrography</b>                 |
| Below 0.50                                | Lake, River                        |
| 0.50 - 1.00                               | <b>Facilities</b>                  |
| 1.00 - 2.00                               | Long-distance pipelines or lines   |
| 2.00 - 4.00                               | Local pipelines or lines           |
| <b>General Information</b>                | Mining or extraction site          |
| Area of Interest                          | Power plant                        |
| <b>Administrative Boundaries</b>          | Sport and recreation constructions |
| Province                                  | Water or Aquatic infrastructure    |
| Municipality                              | <b>Transportation</b>              |
| <b>Placenames</b>                         | Highway                            |
| Placename                                 | Main road                          |
| <b>Built-Up Area</b>                      | Railway                            |
| Residential                               | Airfield runway                    |
| Non residential                           | Airfield                           |
| School, university and research buildings | Helipad                            |
| Hospital or institutional care buildings  |                                    |

**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.

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Consequences within the AOI		Unit of measurement	Affected	Total in AOI
Flooded area		ha		119.0
Estimated population	Number of inhabitants		~ 20	~ 520 000
Built-up	Residential Buildings	ha	0	2 332.5
	Office buildings	ha	0	40.7
	Wholesale and retail trade buildings	ha	0	18.0
	Industrial buildings	ha	0.9	2 014.8
	School, university and research buildings	ha	0	73.9
	Hospital or institutional care buildings	ha	0	26.0
	Military	ha	0	210.3
	Cemetery	ha	0	81.1
Transportation	Airfield runways	ha	0	457.4
	Helipad	ha	0	2.0
	Airfield runways	km	0	11.4
	Highways	km	0	308.9
	Primary Road	km	0	304.7
	Secondary Road	km	0	468.8
	Local Road	km	0.2	3 017.2
	Cart Track	km	0.1	4 144.0
Facilities	Long-distance railways	km	0	338.4
	Settling Basin	ha	0	43.7
	Dams	ha	0	0.01
	Constructions for mining or extraction	ha	0	173.6
	Power plant constructions	ha	0	207.9
	Sport and recreation constructions	ha	0	1 967.5
	Other civil engineering works not elsewhere classified	ha	0	31.9
	Long-distance pipelines, communication and electricity lines	km	0.3	655.4
Land use	Local pipelines and cables	km	0.1	86.4
	Breakwater	km	0	0.9
	Heterogeneous agricultural areas	ha	59.9	71 019.2
	Arable land	ha	53.0	75 464.0
	Inland wetlands	ha	4.7	194.6
	Other	ha	1.4	15 055.4
	Permanent crops	ha	0	1 603.4
	Pastures	ha	0	61.3
	Forests	ha	0	16 307.3
	Shrub and/or herbaceous vegetation association	ha	0	3 039.8
	Open spaces with little or no vegetation	ha	0	309.8
	Coastal wetlands	ha	0	1 276.5

**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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**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.

Access to 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: Digital Terrain Model (5m) © Geoportale Regione Emilia-Romagna (2019).



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