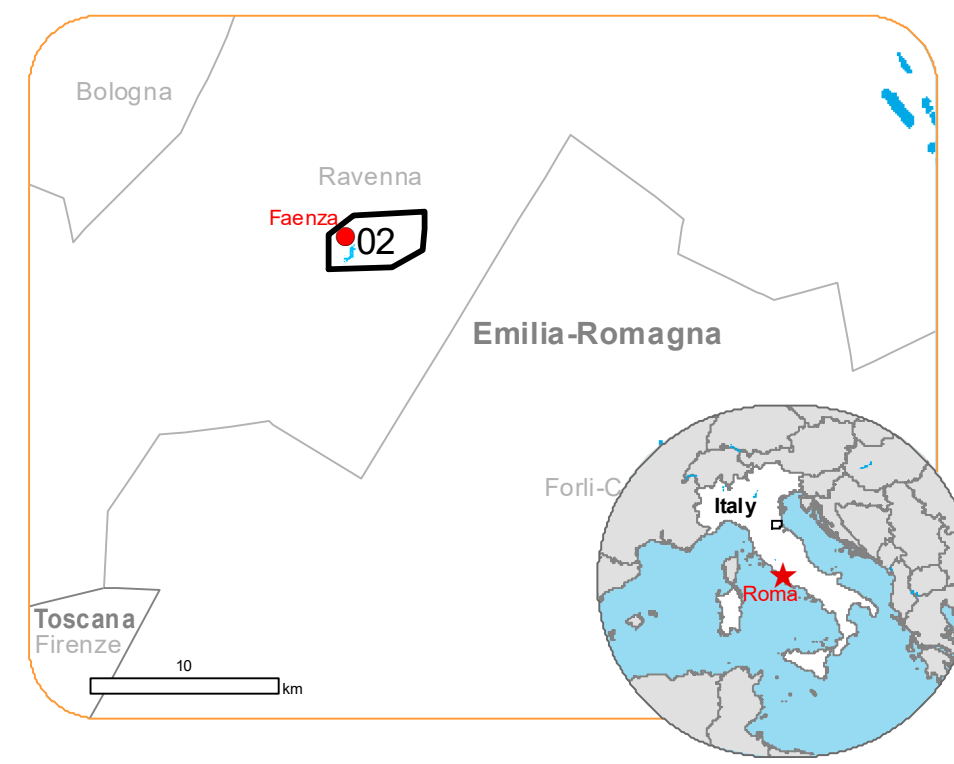


EMSR659 - AOI02
Flood in Italy
LAMONE-FAENZA

Situation as of 04/05/2023 10:15 UTC
Delineation - Overview map 01



Flooded area
16.4 ha
Flood trace
4.0 ha

Potentially affected population
~ 400

Potentially Affected Built-up and Transportations

Built-Up
65 No.

Road
2.6 km

- Crisis Information**
- Flooded Area
 - Flood trace
- General Information**
- Area of Interest
 - Not Analysed
- Built-Up Area**
- Residential
 - Non residential
 - School, university and research buildings
 - Historic or protected monuments
- Hydrography**
- River
- Facilities**
- Long-distance pipelines or lines
 - Local pipelines or lines
- Transportation**
- Main road
 - Local road
 - Track
 - Railway
- 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 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.

Data sources and analysis:
Pre-event image: ESRI World Imagery © DigitalGlobe (acquired on 29/10/2021, GSD 0.6 m, approx. 0% cloud coverage in AoI).
Post-event image: Pleiades-1A/B © CNES (2023) distributed by Airbus DS (acquired on 04/05/2023 at 10:15 UTC, GSD 0.5 m, approx. 19% cloud coverage in AoI, 23° off-nadir angle). This image is used as background image. 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, 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
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.

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.