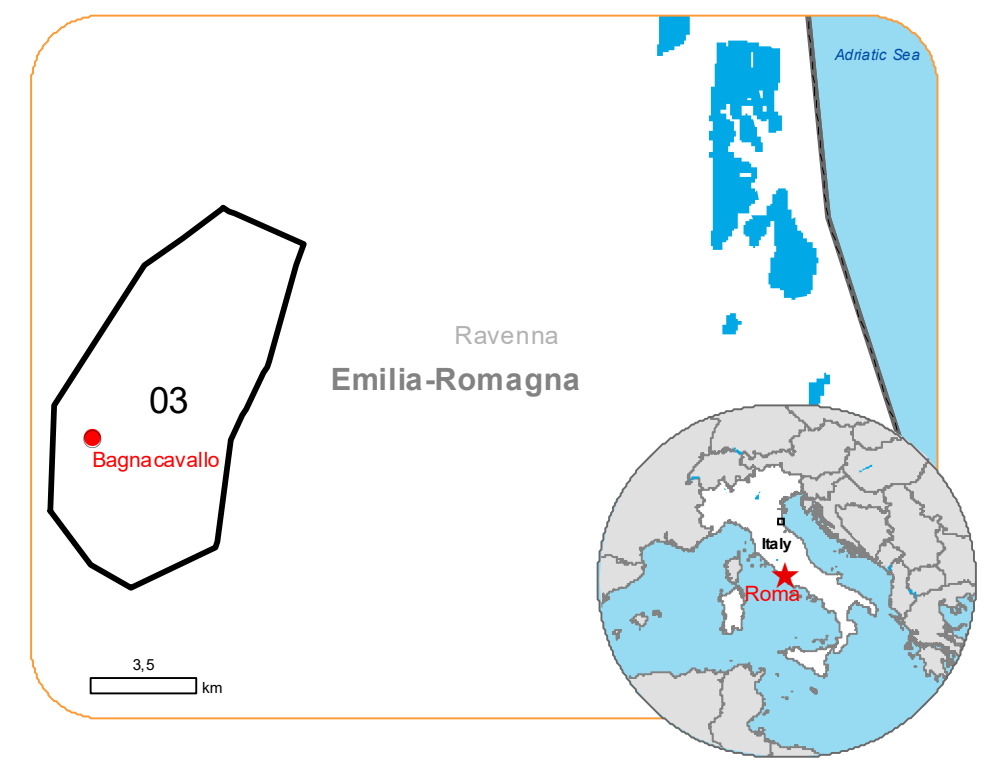




EMSR659 - AOI03
Flood in Italy
BAGNACAVALL0

Situation as of 04/05/2023 05:10 UTC

Delineation - Overview map 01





Observed Event
458.9 ha



Potentially affected
population
~150

Potentially Affected Built-up and Transportations



Built-up
6 No.





Road
9.5 km




Railway
0.2 km

Crisis Information


 Flooded Area

 Area of Interest


General Information


 Administrative boundaries

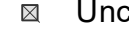
Placenames

 Placename


Built-Up Area

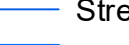
 Residential


 Non residential

 Unclassified


Hydrography


 River


 Stream


 Lake

Facilities


 Long-distance pipelines or lines


 Power plant


 Sport and recreation constructions


 Water or Aquatic infrastructure

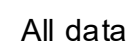
Transportation

 Highway

 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 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: Sentinel-2A/B (2023) (acquired on 07/02/2023 at 10:11 UTC, resolution 10.0 m).
Post-event image: PAZ satellite image © Hisdesat Servicios Estratégicos S.A., 2023 (acquired on 04/05/2023 at 05:10 UTC, resolution 3.0 m).
All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), 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

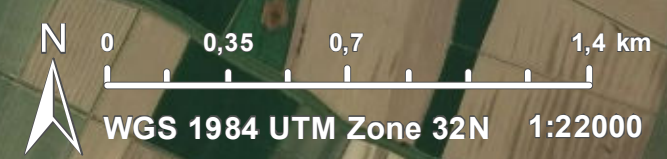
The thematic layer has been derived from post-event satellite image using a semi-automatic approach.
The scale of analysis is 1:10000. The estimated geometric accuracy (RMSE) is 6.0 m or better, from native positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 576 sq m.

This analysis has been supplemented by the social media.

Map produced by ITHACA released by SERTIT on the 04/05/2023.

Details on this activation and service conditions available through the QR code or at the link:
<https://emergency.copernicus.eu/EMS/R659>





EMSR659 AOI: 03 Bagnacavallo Delineation

Consequences within the AOI				
		Unit of measurement	Affected	Total in AOI
Flooded area		ha		458,9
Estimated population	Number of inhabitants		~ 150	~ 12.000
Built-up	Residential Buildings	No.	0	20
	Wholesale and retail trade buildings	No.	0	1
	Industrial buildings	No.	1	221
	Public entertainment buildings	No.	0	1
	Buildings used as places of worship and for religious activities	No.	0	19
	Unclassified	No.	5	5.802
Transportation	Highways	km	0,0	13,9
	Primary Road	km	0,0	6,4
	Secondary Road	km	0,3	11,6
	Local Road	km	1,6	92,5
	Cart Track	km	7,6	100,8
	Long-distance railways	km	0,2	9,8
Facilities	Settling Basin	ha	0,0	0,7
	Power plant constructions	ha	0,0	5,6
	Sport and recreation constructions	ha	0,0	8,1
	Long-distance pipelines, communication and electricity lines	km	1,7	26,0
Land use	Arable land	ha	296,9	1.953,4
	Heterogeneous agricultural areas	ha	145,3	3.537,8
	Permanent crops	ha	9,8	390,2
	Other	ha	6,9	407,4

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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