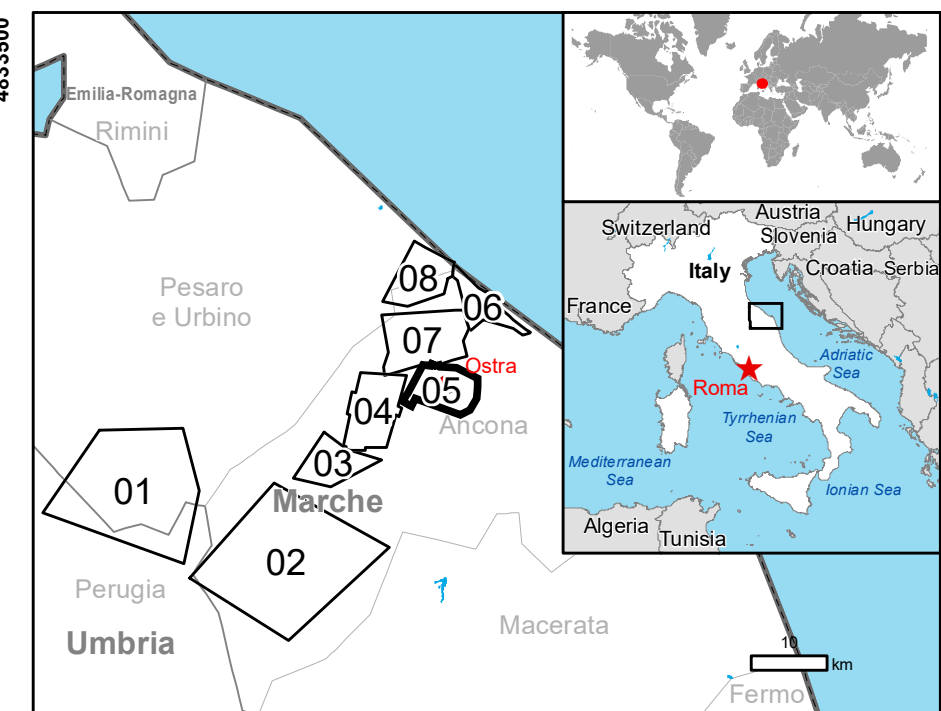


GLIDE number: N/A Activation ID: EMSR634
Int. Charter Act. ID: N/A Product N.: 05OSTRA, v2

OSTRA - ITALY

Flood - Situation as of 18/09/2022

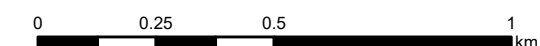
Grading - Overview map 01



Cartographic Information

1:16000

Full color A1, 200 dpi resolution



Grid: WGS 1984 UTM Zone 33N map coordinate system

Tick marks: WGS 84 geographical coordinate system



Legend

Crisis Information

- Flood trace
- Built Up Grading**
 - Destroyed
 - Damaged
 - Possibly damaged

Transportation Grading

- Road, Possibly damaged
- Primary Road, No visible damage
- Secondary Road, No visible damage
- Local Road, No visible damage
- Cart Track, No visible damage

General Information

- Area of Interest
- Detail map

Administrative boundaries

- Municipality

Placenames

- Place name

Hydrography

- River
- Stream
- Lake

Land Use - Land Cover

Features available in the vector package

Conservancies within the AOI							
		Destroyed	Damaged	Possibly damaged*	Total affected**	Total in AOI	
No. 200	Food trace	ha				346.0	
	Estimated population				1 157	7 578	
	Bullrush	No	3	198	208	NA	
	Transportation	km	0.0	0.0	17.8	17.8	157.2
			High damage	Moderate damage	Negligible to slight damage	Total affected**	Total in AOI
Land use	ha	NA	NA	NA	346.0	4 399.1	

* Presence of damage proxies and proximity with destroyed/damaged asset
** Sum of all damage classes
NA: Fully stable, available in the vector database

Map Information

On 15 September 2022, an extremely intense weather event hit Italy's Marche region with heavy rains and flash floods. Three rivers, the Misa River near Senigallia, the Cesano River and the Metauro River, came out of their banks and flooded the surrounding areas. The event began in the afternoon of September 15, the amount of rainfall reached very high accumulations with a maximum of about 400 mm in a few hours in the town of Cantiano in the Pesaro Urbino province. There are extended damages to the houses and roads and there are several electrical interruptions, especially between the towns of Cantiano and Senigallia.

The present map shows the flood damage grade assessment in the area of Ostra (Italy). 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.

Relevant date records (UTC)

Event	15/09/2022 15:00	Situation as of	18/09/2022 10:20
Activation	16/09/2022 09:48	Map production	20/09/2022

Data sources

Pre-event image: ESRI World Imagery © DigitalGlobe (acquired on 09/08/2021, GSD 0.5 m, approx. 0% cloud coverage in AoI).

Post-event image: Pléiades-1A © CNES (2022), distributed by Airbus DS (acquired on 18/09/2022 at 10:20 UTC, GSD 0.5 m, approx. 0% cloud coverage in Aol, 32.5° off-nadir angle), provided under COPERNICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2022), Wikimapia.org, GeoNames 2015, Corine Land Cover (CLC) 2018, EuroBoundaryMap 2017 © EuroGeographics, EUDEM is a product of the European Environment Agency.

Inset maps: JRC 2013, GISCO 2010 © EuroGeographics, Natural Earth 2012, CCM River DB © EUJRC2007, GeoNames 2015.

Population data: GHS Population Grid © European Commission, 2019
https://ghsl.jrc.ec.europa.eu/ghs_pop2019.php

Disclaimer

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Delivery formats are Layered Geospatial PDF, GeoJPEG and vector (ESRI shapefiles, Google Earth KML, GeoJSON).

Map produced by SERTIT released by e-GEOS (ODO)

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