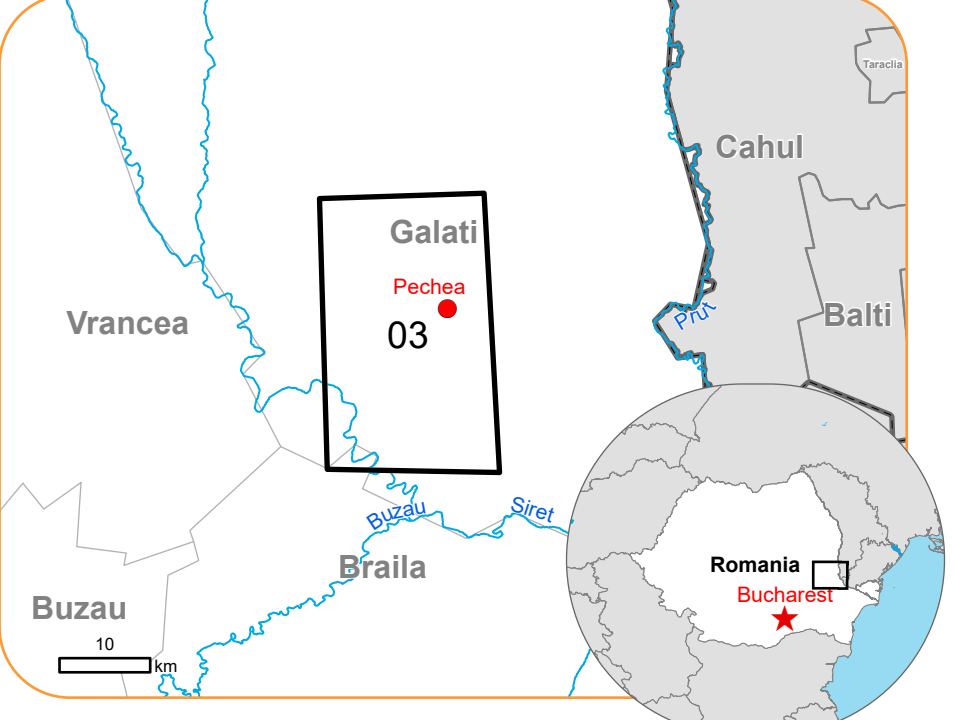


EMSR758 - AOI03
Flood in Romania
PECHEA

Situation as of 17/09/2024 16:13 UTC
Delineation MONIT01 - Overview map 01





Observed Event
427.4 ha



Potentially affected
population
~ 30

Potentially Affected Built-up and Transportations



Road
1.9 km



Railway
0.1 km



Built-up
7.5 ha

Estimated flood depth (m)

Below 0.50

0.50 - 1.00

1.00 - 2.00

Built-Up Area

Residential

Non residential

Hydrography

Lake, River

Crisis Information

Maximum Flood Extent

General Information

Area of Interest

Detail map

Administrative Boundaries

Region

Province

Placenames

Placename

Facilities

Long-distance pipelines or lines

Transportation

Main road

Local road

Track

Railway

Event: On 14 September 2024, starting at 05:00 local time, major floods have occurred due to dangerous hydro-meteorological phenomena in Galati and Vaslui counties, Romania. At the time of triggering, over 5000 households have been affected, 252 people have been evacuated and 4 people have died. The Romanian authorities intervene with pneumatic boats to transport and evacuate people from the affected areas, motor pumps are also used to evacuate water from households. 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 (2024) (acquired on 24/08/2024 at 08:55 UTC, resolution 10 m). Post-event image: COSMO-SkyMed SG © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 17/09/2024 at 16:13 UTC, resolution 3.0 m). All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

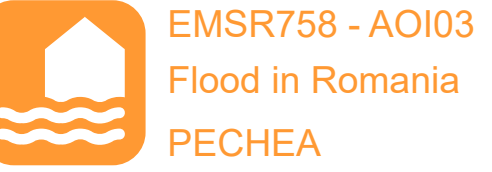
The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

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

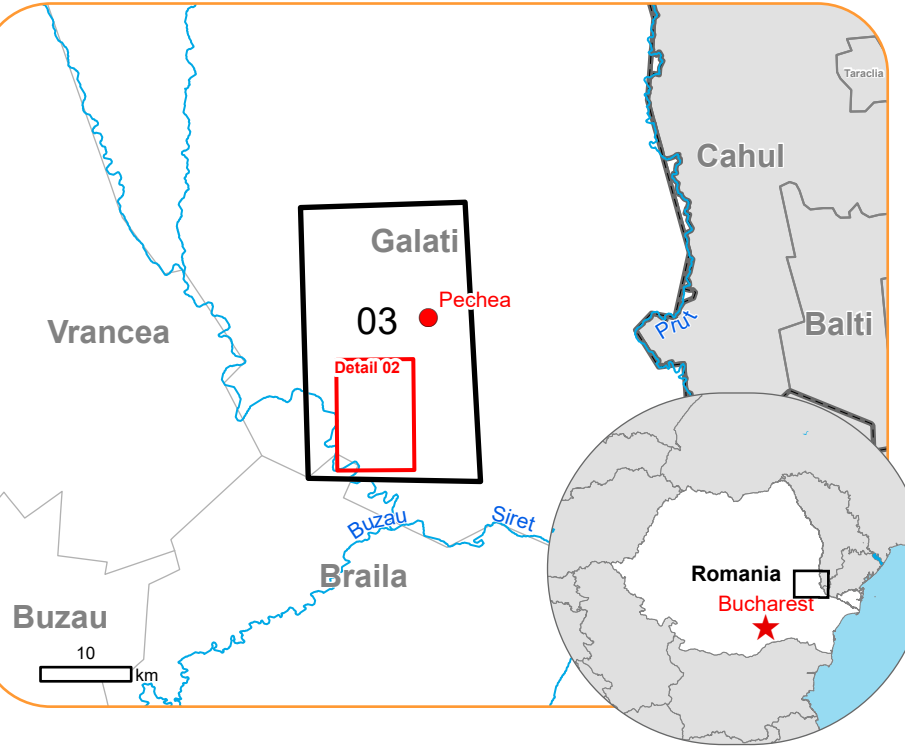
Map produced by ITHACA released by SERTIT on the 18/09/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR758>





Situation as of 17/09/2024 16:13 UTC
Delineation MONIT01 - Detail map 02



- | | |
|---|---|
| Estimated flood depth (m) | Built-Up Area |
| ■ Below 0.50 | ■ Residential |
| ■ 0.50 - 1.00 | ■ Non residential |
| Crisis Information | Hydrography |
| ■ Maximum Flood Extent | ■ Lake, River |
| Administrative Boundaries | Facilities |
| --- Region | --- Long-distance pipelines or lines |
| --- Province | Transportation |
| Placenames | --- Main road |
| ● Placename | --- Local road |
| | --- Track |
| | --- Railway |

Event: On 14 September 2024, starting at 05:00 local time, major floods have occurred due to dangerous hydro-meteorological phenomena in Galati and Vaslui counties, Romania. At the time of triggering, over 5000 households have been affected, 252 people have been evacuated and 4 people have died. The Romanian authorities intervene with pneumatic boats to transport and evacuate people from the affected areas, motor pumps are also used to evacuate water from households. 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 (2024) (acquired on 24/08/2024 at 08:55 UTC, resolution 10 m). Post-event image: COSMO-SkyMed SG © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 17/09/2024 at 16:13 UTC, resolution 3.0 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 maximum flood extent corresponds to the flood observed in all previous products (cumulative analysis). The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

Map produced by ITHACA released by SERTIT on the 18/09/2024.

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Consequences within the AOI				
		Unit of measurement	Affected	Total in AOI
Flooded area*		ha		427.4
Maximum flood extent**		ha		918.4
Estimated population		Number of inhabitants	~ 30	~ 39,000
Built-up	Residential Buildings	ha	7.3	2,679.6
	Industrial buildings	ha	0.2	293.2
Transportation	Primary Road	km	1.2	18.3
	Secondary Road	km	0	70.6
	Local Road	km	0.2	355.0
	Cart Track	km	0.5	218.3
	Long-distance railways	km	0.1	39.4
Facilities	Long-distance pipelines, communication and electricity lines	km	0.1	93.2
Land use	Pastures	ha	262.5	3,181.1
	Arable land	ha	95.8	41,676.8
	Inland wetlands	ha	52.1	347.9
	Heterogeneous agricultural areas	ha	8.9	2,163.0
	Other	ha	7.1	3,621.1
	Permanent crops	ha	1.0	3,792.9
	Forests	ha	0	959.0
	Shrub and/or herbaceous vegetation association	ha	0	656.2

* Corresponds to the water observed in the most recent satellite imagery, excluding permanent water
** Corresponds to the water observed in all previous products and in all crisis imagery, excluding permanent water (cumulative analysis).

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.

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: FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus,2020).

