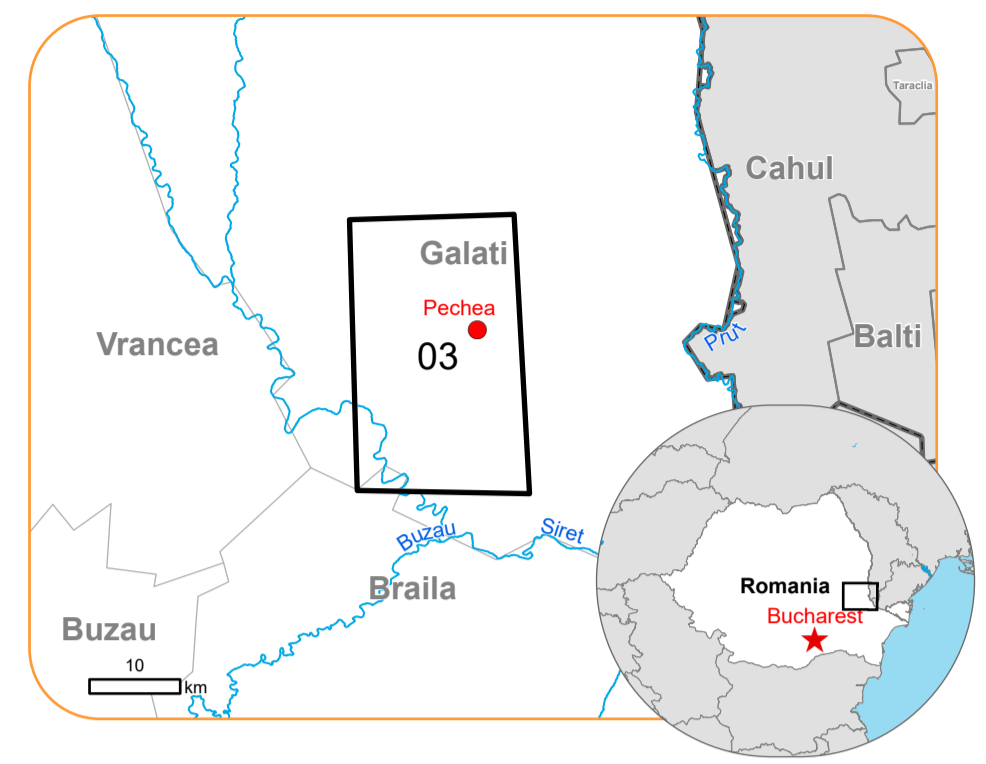


**EMSR758 - AOI03**  
Flood in Romania  
PECHEA

**Situation as of 15/09/2024 15:59 UTC**  
Delineation - Overview map 01





**Observed Event**  
876.7 ha



**Potentially affected population**  
~ 60

Potentially Affected Built-up and Transportations



**Road**  
4.4 km



**Railway**  
0.6 km



**Built-up**  
10.5 ha

**Estimated flood depth (m)**

- Below 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- 2.00 - 4.00

**Built-Up Area**

- Residential
- Non residential

**Hydrography**

- Lake, River

**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: PAZ satellite image © Hisdesat Servicios Estratégicos S.A., 2021 (acquired on 15/09/2024 at 15:59 UTC, resolution 3.01 m). All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

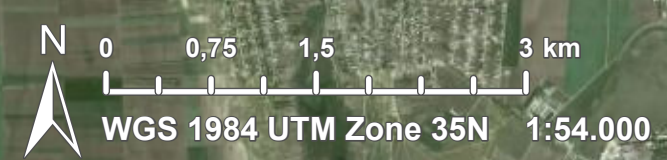
The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

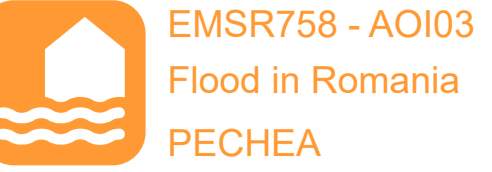
The flood depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

Map produced by ITHACA released by SERTIT on the 16/09/2024.

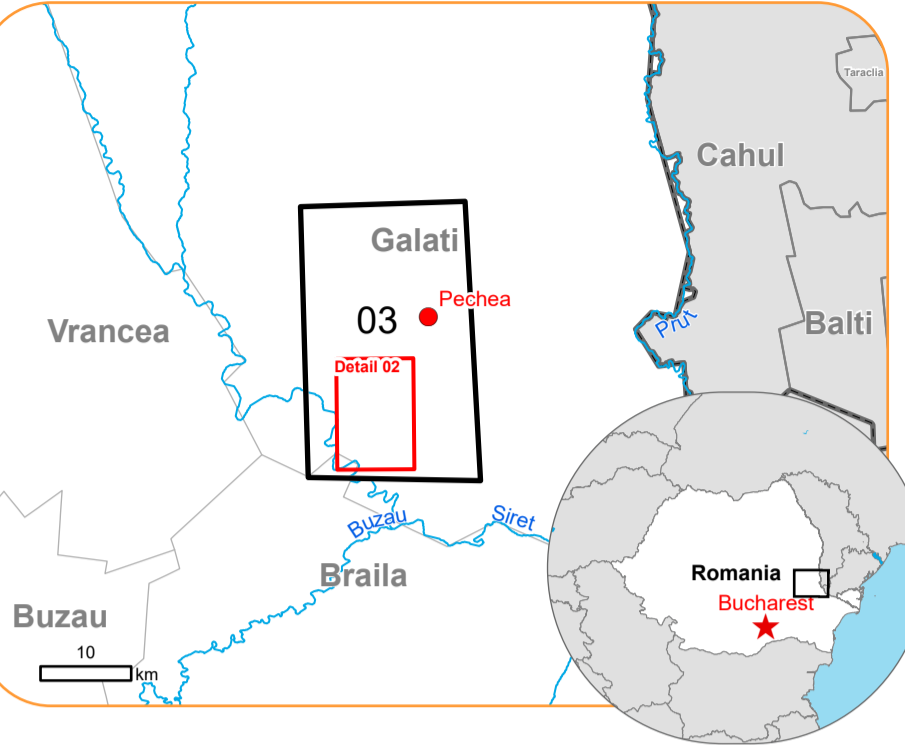
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR758>







Situation as of 15/09/2024 15:59 UTC  
Delineation - Detail map 02



- Estimated flood depth (m)**
- Below 0.50
  - 0.50 - 1.00
  - 1.00 - 2.00
  - 2.00 - 4.00
- Built-Up Area**
- Residential
  - Non residential
- Hydrography**
- Lake, River
- General Information**
- Area of Interest
- 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.

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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 ITHACA released by SERTIT on the 16/09/2024.

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Consequences within the AOI				
		Unit of measurement	Affected	Total in AOI
Flooded area		ha		866.7
Estimated population	Number of inhabitants		~ 60	~ 39.000
Built-up	Residential Buildings	ha	9.9	2.679.6
	Industrial buildings	ha	0.6	293.2
Transportation	Primary Road	km	2.1	18.3
	Secondary Road	km	0.1	70.6
	Local Road	km	0.6	355.0
	Cart Track	km	1.6	218.3
	Long-distance railways	km	0.6	39.4
Facilities	Long-distance pipelines, communication and electricity lines	km	1.0	93.2
Land use	Pastures	ha	475.6	3.181.1
	Arable land	ha	270.0	41.676.8
	Inland wetlands	ha	71.4	347.9
	Heterogeneous agricultural areas	ha	34.1	2.163.0
	Other	ha	11.1	3.621.1
	Permanent crops	ha	4.5	3.792.9
	Forests	ha	0.1	959.0
	Shrub and/or herbaceous vegetation association	ha	0	656.2

**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: COP-DEM-EEA-10-R product © DLR e.V. (2014-2018) and

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FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30

Digital Elevation Model (DEM) (Airbus,2020).



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