

EMSR756 - AOI05  
Flood in Czechia  
OSTRAVA

Situation as of 20/09/2024 17:54 UTC  
Delineation MONIT02 - Overview map 01



Flooded area 68.9 ha  
Potentially affected population ~ 20

Potentially Affected Built-up and Transportations

Built-up 1.0 ha  
Road 0.2 km

**Estimated flood depth (m)**  
Below 0.50  
0.50 - 1.00  
1.00 - 2.00  
2.00 - 4.00

**Facilities**  
Long-distance pipelines or lines  
Local pipelines or lines  
Dam  
Mining or extraction site  
Water Well  
Power plant  
Sport and recreation constructions  
Dump Site  
Water or Aquatic infrastructure  
Dam

**Crisis Information**  
Maximum Flood Extent

**General Information**  
Area of Interest  
Image Footprint  
Not Analysed

**Administrative Boundaries**  
Province

**Placenames**  
Placename

**Built-Up Area**  
Residential  
Non residential  
School, university and research buildings  
Hospital or institutional care buildings

**Hydrography**  
Lake, River

**Transportation**  
Highway  
Main road  
Local road  
Track  
Railway  
Tramway  
Airfield runway  
Airfield  
Helipad

**Event:** Due to heavy rainfall in Middle and Eastern Europe, flooding is forecast to affect Polish regions close to the Czechia Border. Flooding is expected from 14 September 2024 onwards. Copernicus EMS Rapid Mapping is requested to provide flood extent emergency mapping and monitoring.

**Data sources and analysis:** Pre-event image: Sentinel-2A/B (2024) (acquired on 24/08/2024 at 09:45 UTC, resolution 10.0 m). This image is used as background image.

Post-event image: COSMO-SkyMed SG © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 20/09/2024 at 17:54 UTC, resolution 3.0 m).

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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 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 Planetek Hellas released by e-GEOS on the 21/09/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR756>



Consequences within the AOI			
	Unit of measurement	Affected	Total in AOI
Flooded area*	ha		68.9
Maximum flood extent**	ha		1,546.0
Estimated population	Number of inhabitants	~ 20	~ 160,000
Built-up	Residential Buildings	ha	0.1
	Office buildings	ha	0
	Wholesale and retail trade buildings	ha	0
	Industrial buildings	ha	0
	School, university and research buildings	ha	0
	Sports halls	ha	0.9
	Hospital or institutional care buildings	ha	0
	Cemetery	ha	0
Transportation	Airfield runways	ha	0
	Helipad	ha	0
	Airfield runways	km	0
	Highways	km	0
	Primary Road	km	0
	Secondary Road	km	0
	Local Road	km	0
	Cart Track	km	0.2
	Railway Yard	km	0
	Tramway	km	0
Facilities	Long-distance railways	km	0
	Settling Basin	ha	0
	Dams	ha	0
	Constructions for mining or extraction	ha	0
	Power plant constructions	ha	0
	Sport and recreation constructions	ha	1.6
	Other civil engineering works not elsewhere classified	ha	0
	Long-distance pipelines, communication and electricity lines	km	0.7
Land use	Local pipelines and cables	km	0.3
	Dams	km	0
	Arable land	ha	30.6
	Heterogeneous agricultural areas	ha	15.7
	Pastures	ha	9.7
	Other	ha	9.2
	Inland wetlands	ha	3.1
	Shrub and/or herbaceous vegetation association	ha	0.6
	Permanent crops	ha	0
	Forests	ha	0

\* 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.

Access to the portal



#### 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).



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