



Situation as of 21/09/2024 04:17 UTC  
Delineation MONIT02 - Overview map 01



Flooded area  
319 ha

Potentially affected  
population  
~ 40

Potentially Affected Built-up and Transportations

Built-Up  
0.6 ha

Road  
6 km

Railway  
0.1 km

Estimated flood depth (m)

Below 0.50  
0.50 - 1.00  
1.00 - 2.00  
2.00 - 4.00  
4.00 - 6.00

Crisis Information

Maximum Flood Extent

Area of Interest

Image Footprint

Administrative Boundaries

International Boundary

Region

Province

Municipality

Built-Up Area

Residential

Non residential

School, university and  
research buildings

Hospital or institutional  
care buildings

Military

Hydrography

Lake, River

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

Transportation

Main road

Railway

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 06/09/2024 at 09:55 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 21/09/2024 at 04:17 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.

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 CLS released by e-GEOS on the 22/09/2024.

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



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Consequences within the AOI			
	Unit of measurement	Affected	Total in AOI
Flooded area*	ha		319
Maximum flood extent**	ha		5 465,1
Estimated population	Number of inhabitants	~ 40	~ 390 000
Built-up	Residential Buildings	ha	0,1
	Office buildings	ha	0
	Wholesale and retail trade buildings	ha	0
	Industrial buildings	ha	0,6
	School, university and research buildings	ha	0
	Hospital or institutional care buildings	ha	0
	Military	ha	0
	Cemetery	ha	0
Transportation	Airfield runways	ha	0
	Helipad	ha	0
	Airfield runways	km	0
	Primary Road	km	0
	Secondary Road	km	0
	Local Road	km	0,1
	Cart Track	km	5,9
Facilities	Long-distance railways	km	0,1
	Settling Basin	ha	0
	Dams	ha	0,2
	Constructions for mining or extraction	ha	5,8
	Power plant constructions	ha	0
	Sport and recreation constructions	ha	0,5
	Other civil engineering works not elsewhere classified	ha	0
	Long-distance pipelines, communication and electricity lines	km	0,3
Land use	Local pipelines and cables	km	0,1
	Dams	km	0
	Pastures	ha	133,0
	Arable land	ha	88,5
	Other	ha	47,7
	Inland wetlands	ha	22,4
	Heterogeneous agricultural areas	ha	15,3
	Shrub and/or herbaceous vegetation association	ha	7,3
	Forests	ha	4,7
	Permanent crops	ha	0
	Open spaces with little or no vegetation	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.

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.

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

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



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