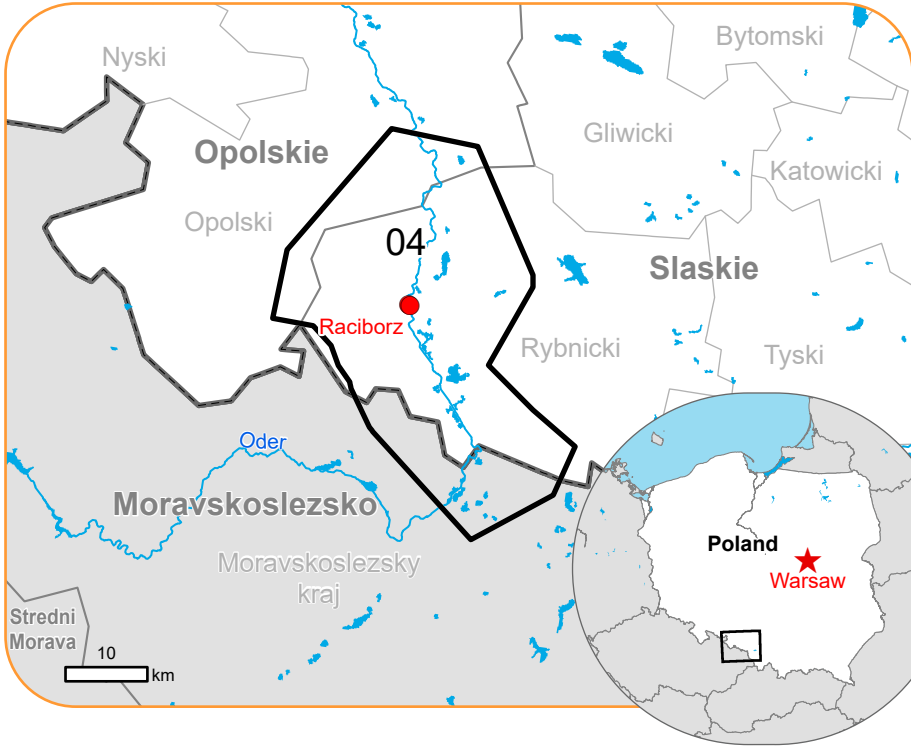




EMSR756 - AOI04
Flood in Poland
RACIBORZ

Situation as of 18/09/2024 16:35 UTC
Delineation MONIT01 - Overview map 01



Flooded area
2,557.0 ha



Potentially affected
population
~ 500

Potentially Affected Built-up and Transportations



Built-up
13.3 ha



Road
73.6 km

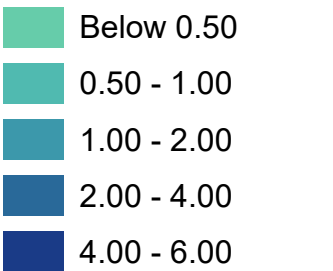


Railway
0.2 km



Water infrastructure
51.8 ha

Estimated flood depth (m)



Crisis Information

Maximum Flood Extent

Area of Interest

Detail map

Administrative Boundaries

International Boundary

Region

Province

Municipality

Placenames

Placename

Built-Up Area

Residential

Non residential

School, university and research buildings

Hospital or institutional care buildings

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

Highway

Main road

Local road

Railway

Airfield runway

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). Post-event image: Sentinel-1A/B (2024) (acquired on 18/09/2024 at 16:35 UTC, resolution 20.0 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 19/09/2024.

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




PROGRAMME OF THE
EUROPEAN UNION





EMS756 - AOI04
Flood in Poland
RACIBORZ

Situation as of 18/09/2024 16:35 UTC
Delineation MONIT01 - Detail map 02



Estimated flood depth (m)

Below 0.50

0.50 - 1.00

1.00 - 2.00

2.00 - 4.00

4.00 - 6.00

School, university and research buildings

Hydrography

Lake, River

Facilities

Long-distance pipelines or lines

Local pipelines or lines

Dam

Mining or extraction site

Sport and recreation constructions

Water or Aquatic infrastructure

Transportation

Main road

Local road

Railway

Airfield runway

Crisis Information

Maximum Flood Extent

Administrative Boundaries

Region

Municipality

Placenames

Placename

Built-Up Area

Residential

Non residential

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). Post-event image: Sentinel-1A/B (2024) (acquired on 18/09/2024 at 16:35 UTC, resolution 20.0 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 19/09/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMS756>



Consequences within the AOI				
		Unit of measurement	Affected	Total in AOI
Flooded area*		ha		2,557.0
Maximum flood extent**		ha		3,727.2
Estimated population		Number of inhabitants	~ 500	~ 230,000
Built-up	Residential Buildings	ha	11.8	9,542.7
	Office buildings	ha	0	46.8
	Wholesale and retail trade buildings	ha	0	55.2
	Industrial buildings	ha	1.4	831.9
	Museums and libraries	ha	0	38.6
	School, university and research buildings	ha	0	39.3
	Sports halls	ha	0	157.7
	Hospital or institutional care buildings	ha	0	23.9
	Cemetery	ha	0	39.6
Transportation	Helipad	ha	0	0.1
	Airfield runways	km	0	1.7
	Highways	km	0.7	44.7
	Primary Road	km	0	142.1
	Secondary Road	km	0	220.1
	Local Road	km	24.3	2,286.5
	Cart Track	km	48.7	1,964.6
	Railway Yard	km	0	0.2
	Long-distance railways	km	0.2	573.1
Facilities	Settling Basin	ha	0	28.4
	Dams	ha	51.8	180.1
	Constructions for mining or extraction	ha	272.2	1,313.4
	Power plant constructions	ha	0	81.2
	Sport and recreation constructions	ha	3.9	567.3
	Other civil engineering works not elsewhere classified	ha	0	225.7
	Long-distance pipelines, communication and electricity lines	km	2.2	216.5
	Local pipelines and cables	km	3.7	708.1
	Dams	km	0	0.6
Land use	Arable land	ha	1,418.9	55,601.0
	Other	ha	554.8	17,242.1
	Pastures	ha	521.8	3,822.7
	Heterogeneous agricultural areas	ha	54.4	7,337.2
	Forests	ha	7.1	14,689.0
	Permanent crops	ha	0	26.1
	Shrub and/or herbaceous vegetation association	ha	0	1,894.7
	Inland wetlands	ha	0	158.6

* 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>
© European Union / Copernicus Emergency Management Service

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).

