



Situation as of 15/09/2024 05:01 UTC
Delineation - Overview map 01



Flooded area 2,900.2 ha
Potentially affected population ~ 400

Potentially Affected Built-up and Transportations

Built-Up 14.3 ha
Road 86.5 km
Railway 2.0 km

Estimated flood depth (m)

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

General Information

Area of Interest

Detail map

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

Transportation

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: Sentinel-1A/B (2024) (acquired on 15/09/2024 at 05:01 UTC, resolution 20 m). All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

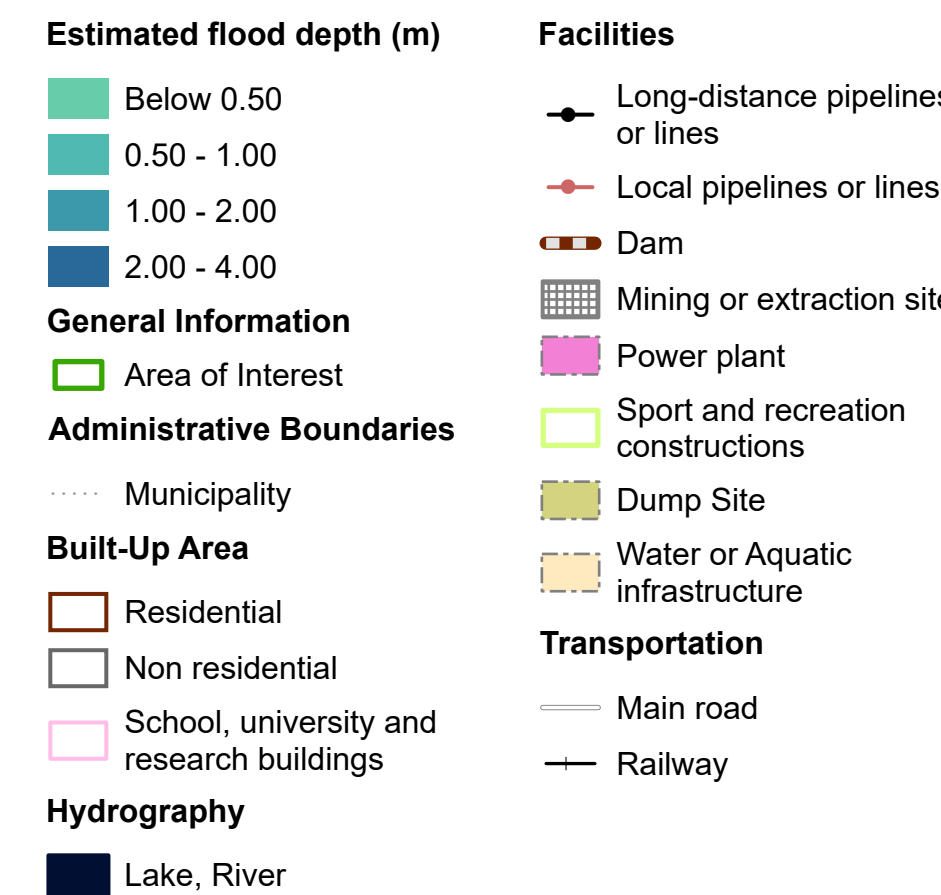
The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

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 e-GEOS 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/EMSR756>





Data sources and analysis: Pre-event image: Sentinel-2A/B (2024) (acquired on 06/09/2021 at 09:55 UTC, resolution 10.0 m). This image is used as background image.
Post-event image: Sentinel-1A/B (2024) (acquired on 15/09/2024 at 05:01 UTC, resolution 20 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 e-GEOS 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/EMSR756>





Situation as of 15/09/2024 05:01 UTC

Delineation - Detail map 03



- Estimated flood depth (m)**
- Below 0.50

0.50 - 1.00

1.00 - 2.00

2.00 - 4.00
- General Information**
- Area of Interest
- Administrative Boundaries**
- Province

Municipality
- Built-Up Area**
- Residential

Non residential
- Hydrography**
- Lake, River
- Facilities**
- Long-distance pipelines or lines

Local pipelines or lines

Dam

Mining or extraction site

Power plant

Sport and recreation constructions
- Transportation**
- Main road

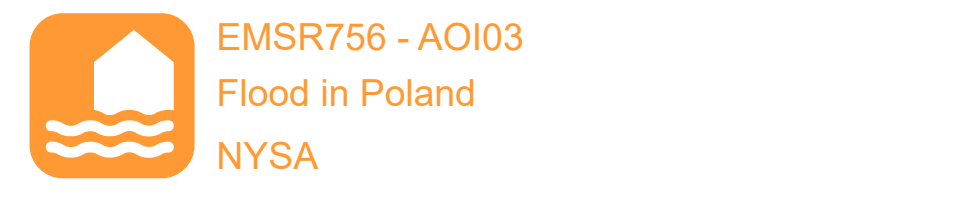
Railway

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.

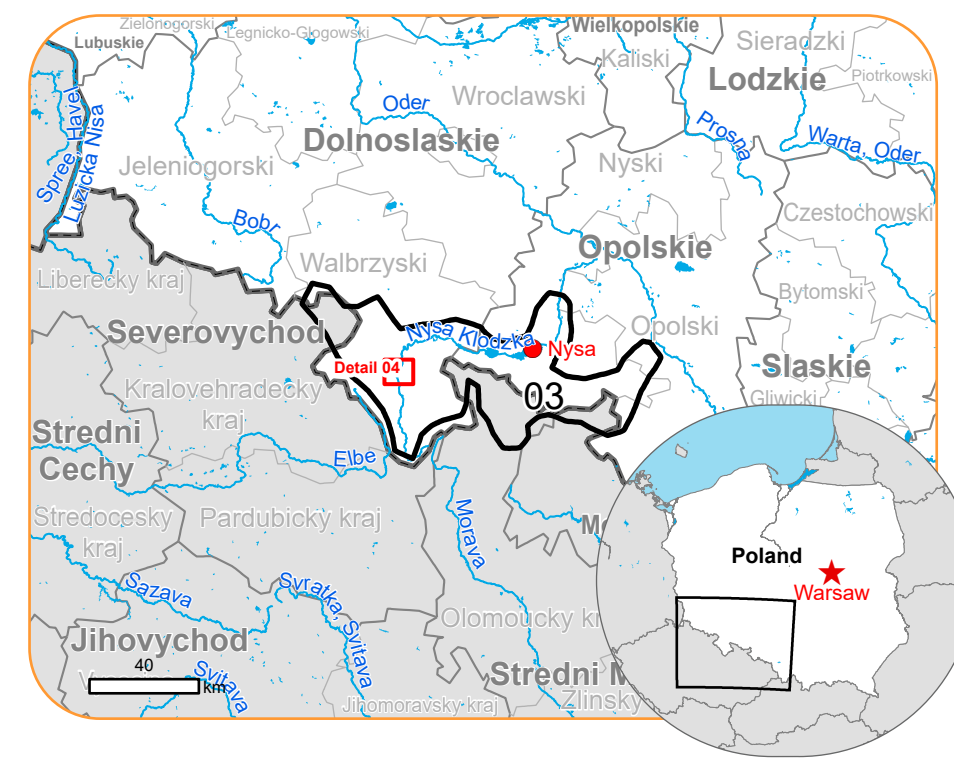
Data sources and analysis: Pre-event image: Sentinel-2A/B (2024) (acquired on 06/09/2021 at 09:55 UTC, resolution 10.0 m). This image is used as background image.
Post-event image: Sentinel-1A/B (2024) (acquired on 15/09/2024 at 05:01 UTC, resolution 20 m). All images are provided under COPERNICUS by 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.



Situation as of 15/09/2024 05:01 UTC
Delineation - Detail map 04



- | Estimated flood depth (m) | Facilities |
|---|------------------------------------|
| Below 0.50 | Long-distance pipelines or lines |
| 0.50 - 1.00 | Local pipelines or lines |
| 1.00 - 2.00 | Dam |
| 2.00 - 4.00 | Mining or extraction site |
| 4.00 - 6.00 | Sport and recreation constructions |
| Area of Interest | Water or Aquatic infrastructure |
| Administrative Boundaries | Transportation |
| Municipality | Main road |
| Built-Up Area | Railway |
| Residential | Airfield runway |
| Non residential | |
| School, university and research buildings | |
| Military | |
| Hydrography | |
| Lake, River | |

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: Sentinel-1A/B (2024) (acquired on 15/09/2024 at 05:01 UTC, resolution 20 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 e-GEOS 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/EMSR756>



Consequences within the AOI				
		Unit of measurement		Total in AOI
Flooded area		ha		2 900.2
Estimated population	Number of inhabitants		~ 400	~ 390 000
Built-up	Residential Buildings	ha	12.9	21 000.9
	Office buildings	ha	0	136.7
	Wholesale and retail trade buildings	ha	0	97.7
	Industrial buildings	ha	1.3	1 601.5
	School, university and research buildings	ha	0	94.8
	Hospital or institutional care buildings	ha	0	18.3
	Military	ha	0	275.1
	Cemetery	ha	0.05	199.4
Transportation	Airfield runways	ha	0	60.5
	Helipad	ha	0	0.2
	Airfield runways	km	0	3.3
	Primary Road	km	1.5	484.5
	Secondary Road	km	0.2	529.2
	Local Road	km	9.8	4 549.8
	Cart Track	km	75.0	10 392.6
	Long-distance railways	km	2.0	979.0
Facilities	Settling Basin	ha	0.02	43.3
	Dams	ha	0	23.9
	Constructions for mining or extraction	ha	7.1	994.2
	Power plant constructions	ha	0.9	71.4
	Sport and recreation constructions	ha	1.7	589.2
	Other civil engineering works not elsewhere classified	ha	0.03	56.5
	Long-distance pipelines, communication and electricity lines	km	3.5	415.4
	Local pipelines and cables	km	4.6	820.2
	Dams	km	0	3.9
Land use	Arable land	ha	2 251.3	182 475.8
	Pastures	ha	433.7	33 301.3
	Heterogeneous agricultural areas	ha	165.7	28 020.8
	Other	ha	23.7	29 443.4
	Forests	ha	14.6	105 491.2
	Shrub and/or herbaceous vegetation association	ha	8.6	8 477.0
	Inland wetlands	ha	2.6	211.3
	Permanent crops	ha	0	233.2
	Open spaces with little or no vegetation	ha	0	89.0

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.

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:

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

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



PROGRAMME OF THE
EUROPEAN UNION

