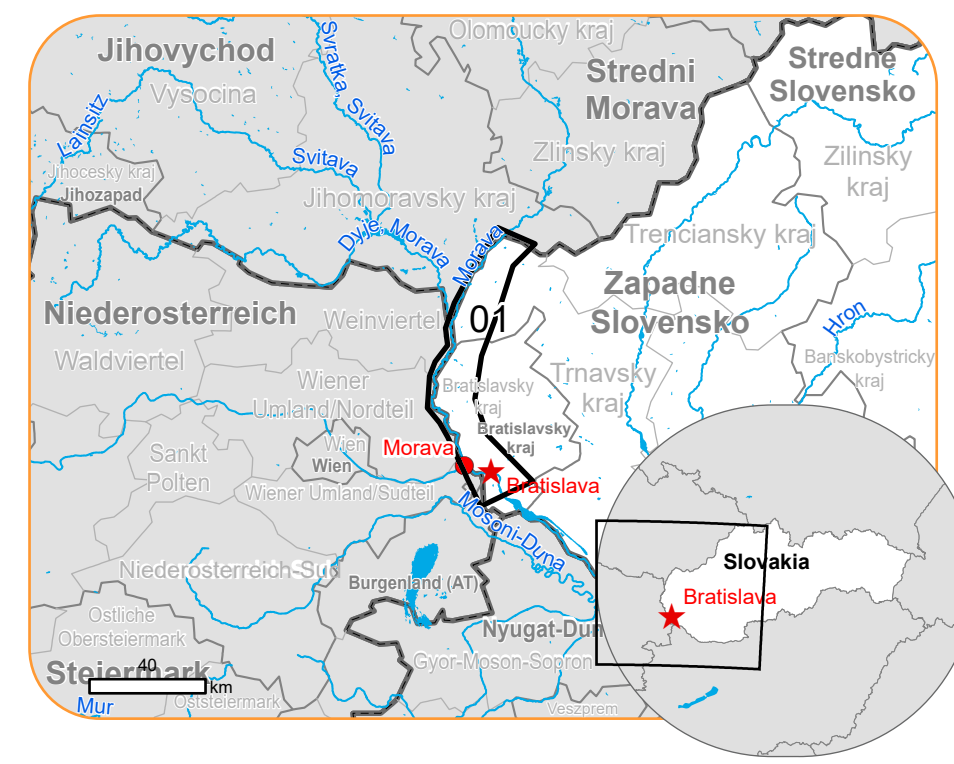



EMSR757 - AOI01  
Flood in Slovakia  
MORAVA

Situation as of 19/09/2024 04:17 UTC  
Delineation MONIT03 - Overview map 01





Flooded area 6,644.7 ha




Potentially affected population ~ 800

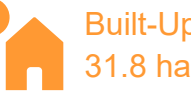
Potentially Affected Built-up and Transportations



Railway 4.8 km



Road 361.6 km



Built-Up 31.8 ha

Estimated flood depth (m)

Below 0.50

0.50 - 1.00

1.00 - 2.00

2.00 - 4.00

4.00 - 6.00

Hydrography

Lake, River

Facilities

Long-distance pipelines or lines

Local pipelines or lines

Water or Aquatic infrastructure

Dam

Mining or extraction site

Oil Gas Well

Water Well

Power plant

Sport and recreation constructions

Dump Site

Water or Aquatic infrastructure

Dam

Transportation

Highway

Main road

Local road

Railway

Tramway

Airfield runway

Transportation

Airfield

Helipad

Harbour

Crisis Information

Maximum Flood Extent

General Information

Area of Interest

Detail map

Image Footprint

Not Analysed

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

Military

**Event:** Due to heavy rainfall over the coming days, flooding is forecast to affect the March and Morava Basins. Copernicus EMS Rapid Mapping is requested to provide flood extent, monitoring and damage assessment emergency mapping.

**Data sources and analysis:** Pre-event image: Sentinel-2A/B (2024) (acquired on 03/09/2024 at 09:45 UTC, resolution 10.0 m). This image is used as background image.  
Post-event image: COSMO-SkyMed SG © ASI © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 19/09/2024 at 04:17 UTC, resolution 5.0 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.

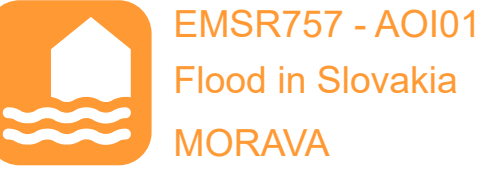
The flood depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

Map produced by e-GEOS released by SERTIT on the 20/09/2024.

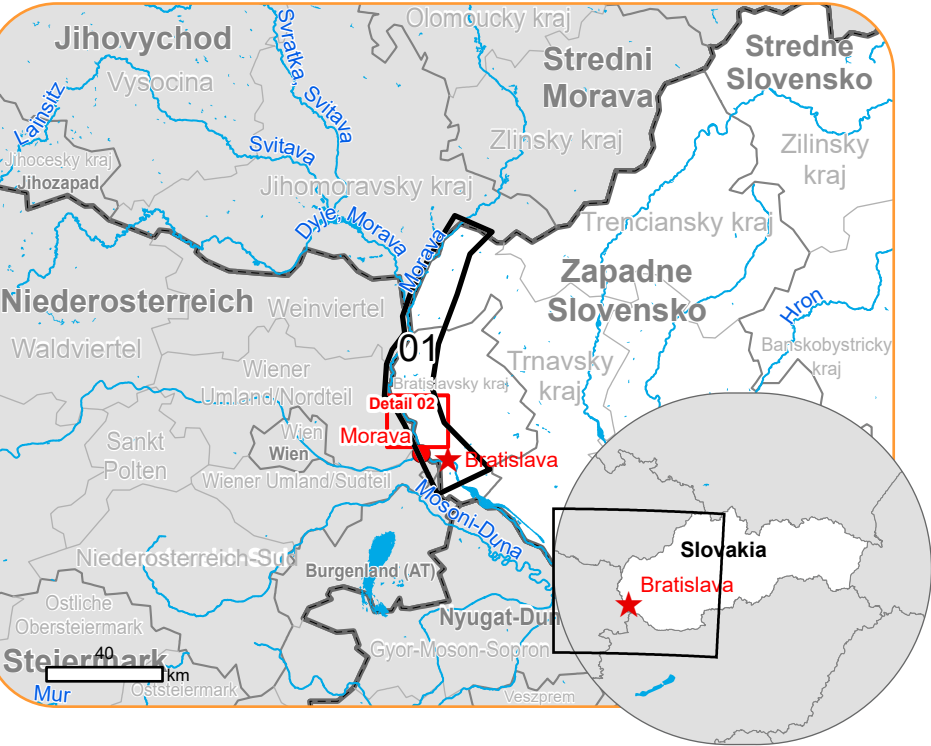
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR756>







Situation as of 19/09/2024 04:17 UTC  
Delineation MONIT03 - 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
- General Information**
- Area of Interest
  - Image Footprint
- Administrative Boundaries**
- International Boundary
  - 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
  - Sport and recreation constructions
  - Dump Site
  - Water or Aquatic infrastructure
  - Dam
- Transportation**
- Highway
  - Main road
  - Local road
  - Railway
  - Helipad

**Event:** Due to heavy rainfall over the coming days, flooding is forecast to affect the March and Morava Basins. Copernicus EMS Rapid Mapping is requested to provide flood extent, monitoring and damage assessment emergency mapping.

**Data sources and analysis:** Pre-event image: Sentinel-2A/B (2024) (acquired on 03/09/2024 at 09:45 UTC, resolution 10.0 m). This image is used as background image.  
Post-event image: COSMO-SkyMed SG © ASI © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 19/09/2024 at 04:17 UTC, resolution 5.0 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 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 20/09/2024.

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		6 644.7
Maximum flood extent**		ha		9 884.1
Estimated population	Number of inhabitants		~ 800	~ 540 000
Built-up	Residential Buildings	ha	20.3	7 776.4
	Office buildings	ha	0.2	356.5
	Wholesale and retail trade buildings	ha	0.3	141.1
	Industrial buildings	ha	10.8	2 529.1
	School, university and research buildings	ha	0.2	283.8
	Hospital or institutional care buildings	ha	0	79.2
	Military	ha	0	3 765.8
	Cemetery	ha	0	136.9
Transportation	Airfield runways	ha	0	385.4
	Helipad	ha	0	0.4
	Harbours	ha	7.0	87.1
	Airfield runways	km	0	18.6
	Highways	km	2.1	302.0
	Primary Road	km	4.2	298.4
	Secondary Road	km	0.8	232.5
	Local Road	km	56.9	3 681.7
	Cart Track	km	297.6	4 130.8
	Railway Yard	km	0	9.8
	Tramway	km	0	77.2
	Harbours	km	1.9	12.5
	Long-distance railways	km	4.8	843.2
Facilities	Settling Basin	ha	0.3	104.0
	Breakwater	ha	0	0.05
	Dams	ha	0	0.03
	Constructions for mining or extraction	ha	8.9	182.7
	Power plant constructions	ha	0	158.0
	Sport and recreation constructions	ha	15.1	1 014.5
	Other civil engineering works not elsewhere classified	ha	4.9	77.4
	Long-distance pipelines, communication and electricity lines	km	13.4	528.9
	Local pipelines and cables	km	22.3	736.1
	Breakwater	km	0.05	0.05
	Dams	km	0.4	2.0
Land use	Arable land	ha	2 745.7	63 362.6
	Pastures	ha	2 064.9	3 929.0
	Heterogeneous agricultural areas	ha	839.5	8 471.4
	Forests	ha	589.1	42 048.6
	Other	ha	351.8	22 266.0
	Shrub and/or herbaceous vegetation association	ha	32.1	2 516.6
	Inland wetlands	ha	20.0	155.2
	Permanent crops	ha	1.8	1 770.4

\* 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.

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).



PROGRAMME OF THE  
EUROPEAN UNION

