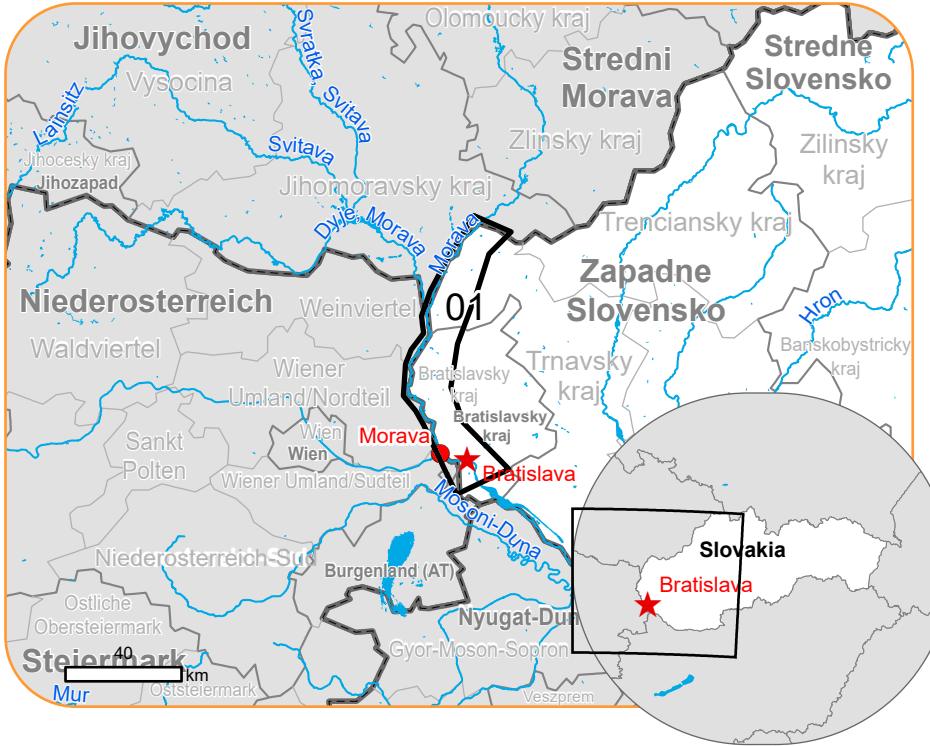


Situation as of 18/09/2024 16:30 UTC
Delineation MONIT02 - Overview map 01



Flooded area 7,202.9 ha
Potentially affected population ~ 500

Potentially Affected Built-up and Transportations

Railway 0.5 km
Road 351.2 km
Built-Up 19.0 ha

Estimated flood depth (m)	Hydrography
Below 0.50	Lake, River
0.50 - 1.00	
1.00 - 2.00	
2.00 - 4.00	
4.00 - 6.00	
Crisis Information	Facilities
Maximum Flood Extent	Long-distance pipelines or lines
Area of Interest	Local pipelines or lines
Detail map	Water or Aquatic infrastructure
Image Footprint	Dam
Not Analysed	Mining or extraction site
Administrative Boundaries	Oil Gas Well
International Boundary	Water Well
Region	Power plant
Province	Sport and recreation constructions
Municipality	Dump Site
Placenames	Water or Aquatic infrastructure
Placename	Dam
Built-Up Area	Transportation
Residential	Highway
Non residential	Main road
School, university and research buildings	Local road
Hospital or institutional care buildings	Railway
Military	Tramway
	Airfield runway
	Transportation
	Airfield
	Helipad
	Harbour

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 18/09/2024 at 16:30 UTC, resolution 5.0 m).

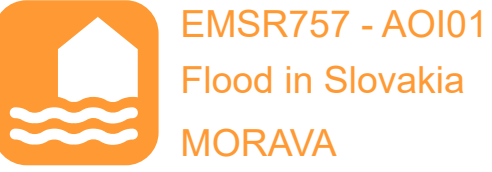
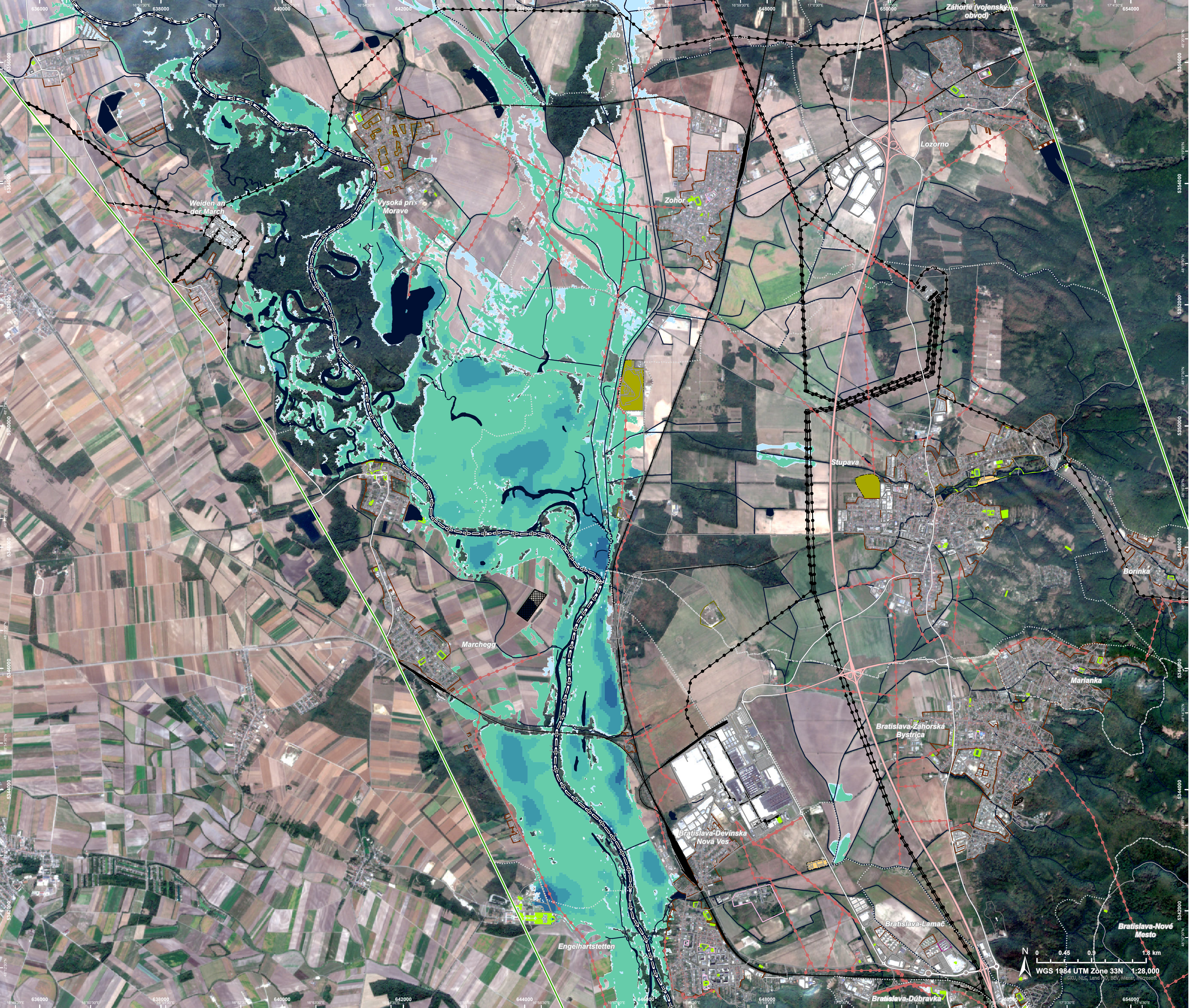
All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

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.

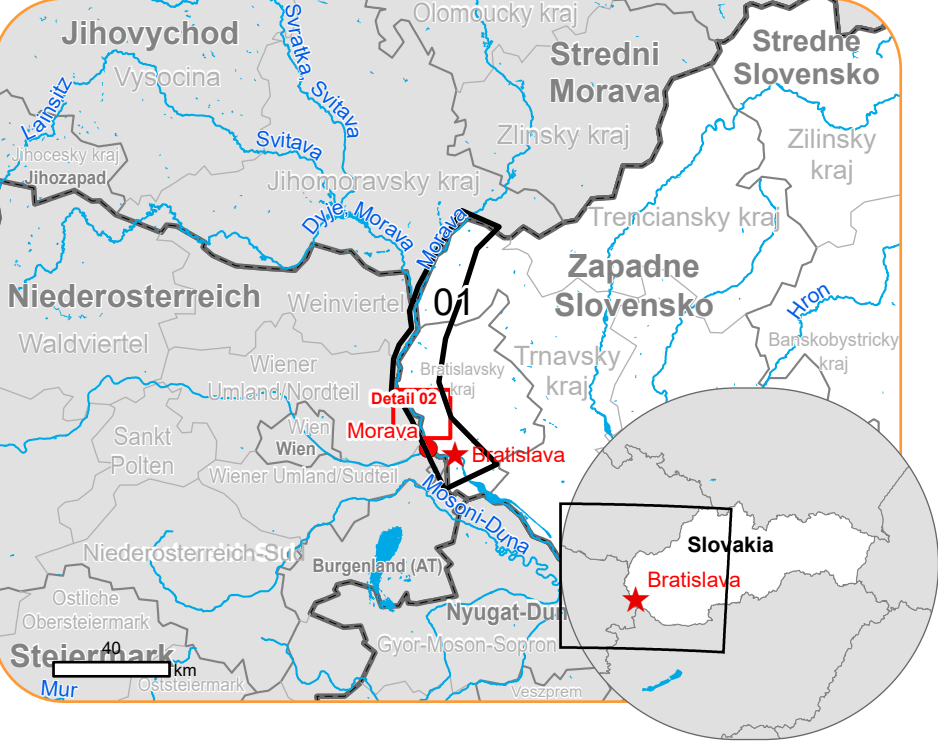
The flood depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The maximum flood extent corresponds to the flood observed in all previous products (cumulative analysis). The flooded area corresponds to the water observed in the most recent satellite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

Map produced by e-GEOS 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>



Situation as of 18/09/2024 16:30 UTC
Delineation MONIT02 - 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
- Crisis Information**
- Maximum Flood Extent
- 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
- 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 18/09/2024 at 16:30 UTC, resolution 5.0 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 e-GEOS 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>

Consequences within the AOI			
	Unit of measurement	Affected	Total in AOI
Flooded area*	ha		7,202.9
Maximum flood extent**	ha		9,064.2
Estimated population	Number of inhabitants	~ 500	~ 540,000
Built-up	Residential Buildings	ha 12.9	7,776.4
	Office buildings	ha 1.1	356.5
	Wholesale and retail trade buildings	ha 0.05	141.1
	Industrial buildings	ha 1.8	2,529.1
	School, university and research buildings	ha 0	283.8
	Hospital or institutional care buildings	ha 0	79.2
	Military	ha 3.2	3,765.8
	Cemetery	ha 0.01	136.9
Transportation	Airfield runways	ha 0	385.4
	Helipad	ha 0	0.4
	Harbours	ha 0	87.1
	Airfield runways	km 0	18.6
	Highways	km 0.6	302.0
	Primary Road	km 3.0	298.4
	Secondary Road	km 1.1	232.5
	Local Road	km 46.1	3,681.7
	Cart Track	km 300.3	4,130.8
	Railway Yard	km 0	9.8
	Tramway	km 0	77.2
	Harbours	km 0	12.5
	Long-distance railways	km 0.5	843.2
Facilities	Settling Basin	ha 0.01	104.0
	Breakwater	ha 0	0.05
	Dams	ha 0	0.03
	Constructions for mining or extraction	ha 0	182.7
	Power plant constructions	ha 0	158.0
	Sport and recreation constructions	ha 3.9	1,014.5
	Other civil engineering works not elsewhere classified	ha 5.7	77.4
	Long-distance pipelines, communication and electricity lines	km 14.8	528.9
	Local pipelines and cables	km 26.5	736.1
	Breakwater	km 0	0.05
	Dams	km 0	2.0
Land use	Arable land	ha 3,238.8	63,362.6
	Pastures	ha 2,026.5	3,929.0
	Heterogeneous agricultural areas	ha 878.8	8,471.4
	Forests	ha 734.3	42,048.6
	Other	ha 254.7	22,266.0
	Shrub and/or herbaceous vegetation association	ha 26.0	2,516.6
	Permanent crops	ha 22.1	1,770.4
	Inland wetlands	ha 21.8	155.2

* 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.

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).

Access to the portal



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