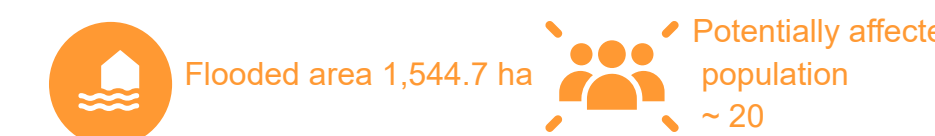
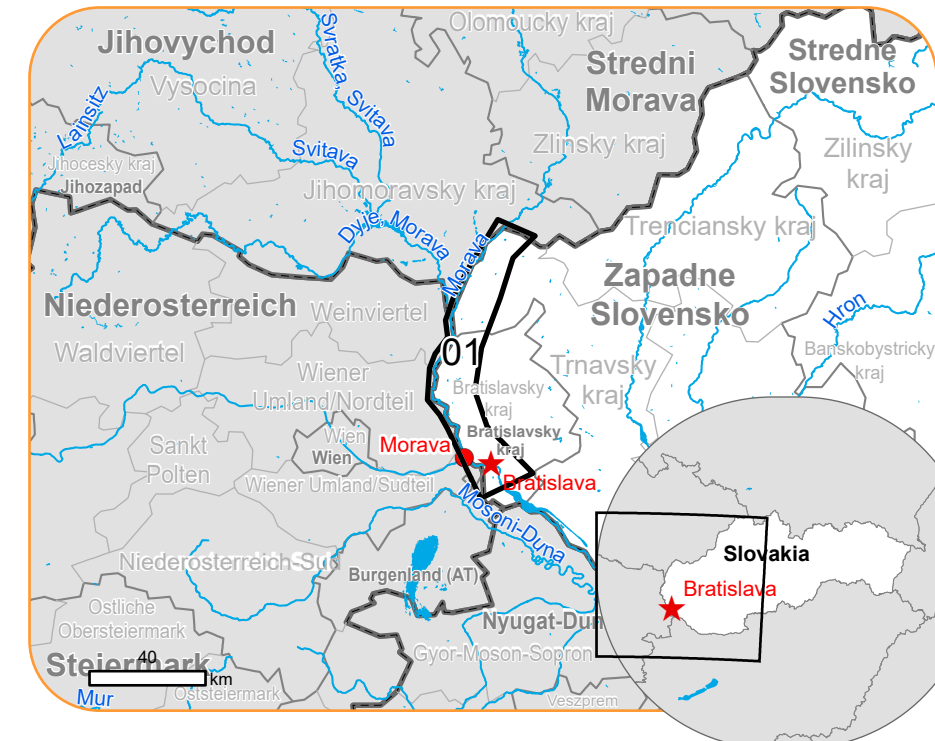









































Delineation - Overview map 01



Potentially Affected Built-up and Transportations



Estimated flood depth (m)	Facilities
 Below 0.50	 Long-distance pipeline or lines
 0.50 - 1.00	 Local pipelines or lines
 1.00 - 2.00	 Water or Aquatic infrastructure
 2.00 - 4.00	 Dam
 4.00 - 6.00	 Mining or extraction site
General Information	 Oil Gas Well
 Area of Interest	 Water Well
 Detail map	 Power plant
Administrative Boundaries	 Sport and recreation constructions
 International Boundary	 Dump Site
 Region	 Water or Aquatic infrastructure
 Province	 Dam
 Municipality	Transportation
Placenames	 Highway
 Placename	 Main road
Built-Up Area	 Local road
 Residential	 Railway
 Non residential	 Tramway
 School, university and research buildings	 Airfield runway
 Hospital or institutional care buildings	Transportation
 Military	 Airfield
Hydrography	 Helipad
 Lake, River	 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 a background image.

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.

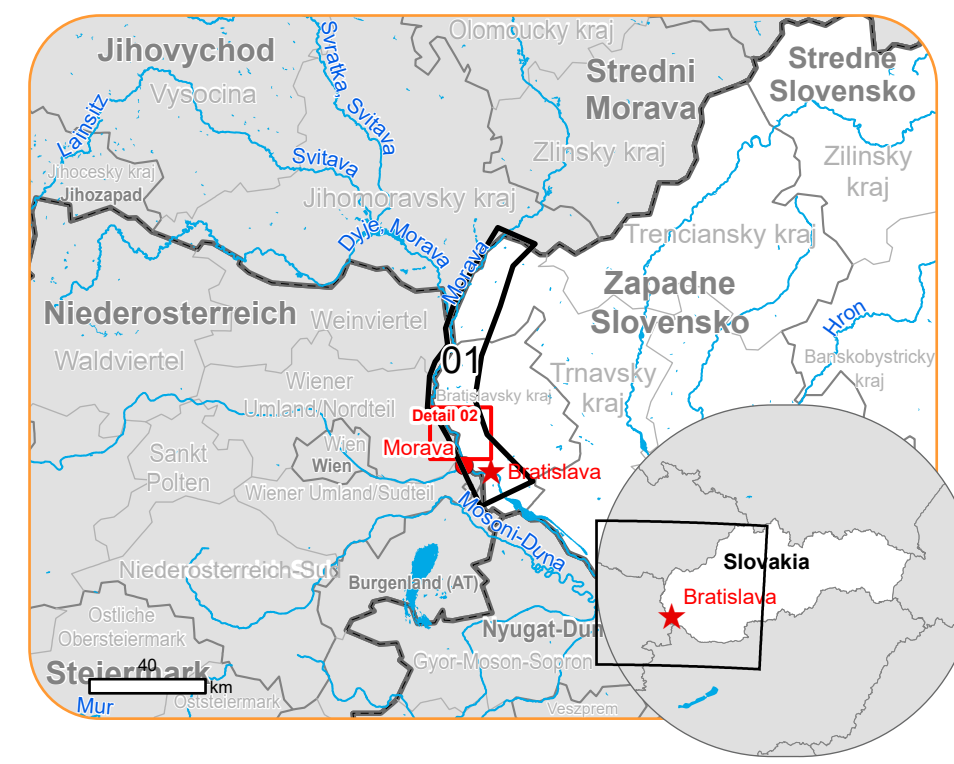
Map produced by e-GEOS released by SERTIT on the 15/09/2024.

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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- 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
- Administrative Boundaries**
- International Boundary
 - Province
 - Municipality
- Placenames**
- Placename
- 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
 - Tramway
 - 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: Sentinel-1A/B (2024) (acquired on 15/09/2024 at 05:02 UTC, resolution 20.0 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 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 15/09/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMS757>

Consequences within the AOI		Unit of measurement	Affected	Total in AOI
Flooded area		ha		1,544.7
Estimated population	Number of inhabitants		~ 20	~ 540,000
Built-up	Residential Buildings	ha	0.1	7,776.4
	Office buildings	ha	0	356.5
	Wholesale and retail trade buildings	ha	0	141.1
	Industrial buildings	ha	0	2,529.1
	School, university and research buildings	ha	0	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	0	87.1
	Airfield runways	km	0	18.6
	Highways	km	0	302.0
	Primary Road	km	0	298.4
	Secondary Road	km	0	232.5
	Local Road	km	2.3	3,681.7
	Cart Track	km	41.5	4,130.8
	Railway Yard	km	0	9.8
	Tramway	km	0	77.2
	Harbours	km	0	12.5
	Long-distance railways	km	0.02	843.2
Facilities	Settling Basin	ha	0	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	0	1,014.5
	Other civil engineering works not elsewhere classified	ha	0	77.4
	Long-distance pipelines, communication and electricity lines	km	0	528.9
	Local pipelines and cables	km	2.3	736.1
	Breakwater	km	0	0.05
	Dams	km	0	2.0
Land use	Pastures	ha	799.4	3,929.0
	Arable land	ha	501.0	63,362.6
	Heterogeneous agricultural areas	ha	213.0	8,471.4
	Forests	ha	27.5	42,048.6
	Other	ha	3.8	22,266.0
	Permanent crops	ha	0	1,770.4
	Shrub and/or herbaceous vegetation association	ha	0	2,516.6
	Inland wetlands	ha	0	155.2

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

Access to the portal



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