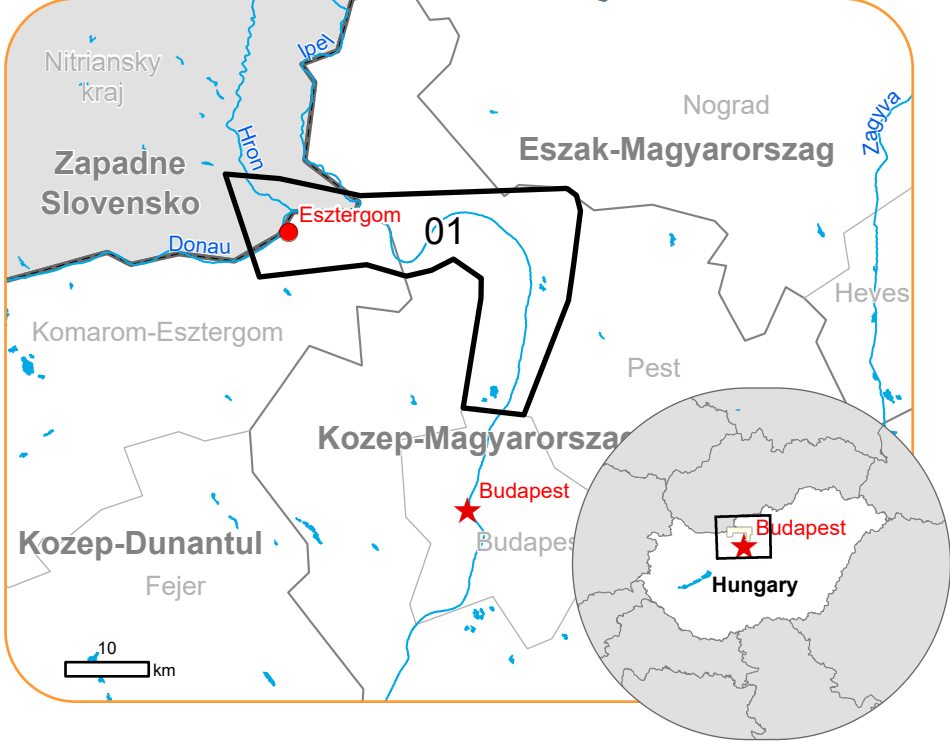


Situation as of 21/09/2024 09:14 UTC
Delineation MONIT01 - Overview map 01



Observed Event
4 815.6 ha

Potentially affected population
~ 2 700

Potentially Affected Built-up and Transportations

Built-up
102.3 ha

Road
225 km

Railway
0.4 km

Estimated flood depth (m)	Built-Up Area
Below 0.50	Residential
0.50 - 1.00	Non residential
1.00 - 2.00	School, university and research buildings
2.00 - 4.00	Hospital or institutional care buildings
4.00 - 6.00	Military
Flood trace	Hydrography
General Information	Lake, River
Area of Interest	Transportation
Administrative Boundaries	Highway
International Boundary	Main road
Region	Local road
Province	Track
Municipality	Railway
Placenames	Airfield runway
Placename	Airfield

Event: On 13 September 2024, from 06:00 local time, downpours started affecting the Danube Basin. Maximum precipitation is expected on the weekend of 14 September 2024. Water levels are expected to rise into the middle of the week starting the 15 September 2024. Copernicus EMS Rapid Mapping is requested to provide initial rough estimation and flood extent emergency mapping.

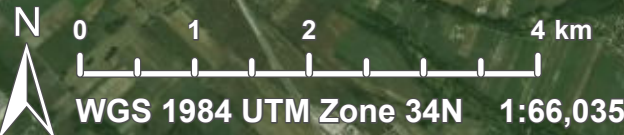
Data sources and analysis: Pre-event image: Sentinel-2A (2024) (acquired on 30/07/2024 at 09:50 UTC, resolution 2.0 m). This image is used as background image.
Post-event image: GeoEye © Maxar Technologies, Inc (2024) (acquired on 21/09/2024 at 09:14 UTC, resolution 2.0 m).
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The 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 CLS released by e-GEOS on the 22/09/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR759>



Consequences within the AOI		Unit of measurement	Affected	Total in AOI
Flood trace		ha		244,7
Flooded area*		ha		4,570,9
Maximum flood extent**		ha		4,571,7
Estimated population	Number of inhabitants		~ 2,700	~ 190,000
Built-up	Residential Buildings	ha	91,6	5,888,1
	Office buildings	ha	2,6	46,9
	Wholesale and retail trade buildings	ha	0,01	82,6
	Industrial buildings	ha	7,8	927,2
	School, university and research buildings	ha	0,3	51,5
	Hospital or institutional care buildings	ha	0,01	12,8
	Military	ha	0	30,9
	Cemetery	ha	0	53,3
Transportation	Airfield runways	ha	3,9	70,9
	Helipad	ha	0	0,3
	Airfield runways	km	0,2	2,4
	Highways	km	0	44,2
	Primary Road	km	9,4	188,7
	Secondary Road	km	7,1	77,9
	Local Road	km	51,7	1,764,9
	Cart Track	km	156,9	1,767,3
Facilities	Long-distance railways	km	0,4	362,4
	Settling Basin	ha	0,1	13,7
	Dams	ha	0	0,1
	Constructions for mining or extraction	ha	0	180,1
	Power plant constructions	ha	0	41,0
	Sport and recreation constructions	ha	61,7	428,7
	Other civil engineering works not elsewhere classified	ha	0	32,8
	Long-distance pipelines, communication and electricity lines	km	13,5	131,7
Land use	Local pipelines and cables	km	35,2	372,4
	Breakwater	km	0	0,1
	Dams	km	0	1,2
	Arable land	ha	1,729,3	11,329,6
	Pastures	ha	973,9	3,597,2
	Forests	ha	853,9	15,297,2
	Other	ha	601,7	15,477,8
	Heterogeneous agricultural areas	ha	471,9	6,093,3
	Shrub and/or herbaceous vegetation association	ha	183,6	2,718,6
	Permanent crops	ha	1,1	711,7
	Inland wetlands	ha	0	124,7

* 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.

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.

DigitalElevation 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

