

Zvolen - SLOVAKIA

Flood - Situation as of 15/10/2020

Delineation - Overview map 01



Cartographic Information

1:70000 Full color A1, 200 dpi resolution



Grid: WGS 1984 UTM Zone 34N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend

Crisis Information	Placenames	Facilities
Flooded Area 15/10/2020 16:34 UTC	Placename	Dam
Area of Interest	Built-Up Area	Construction for mining or extraction
Administrative boundaries	Hydrography	Dump Site
Province	River	Primary Road
Municipality	Stream	Secondary Road
	Lake	Long-distance railway
	Reservoir	Airfield runway

Consequences within the AOI		Unit of measurement		Affected	Total in AOI
Flooded area		ha		41	
Estimated population		Number of inhabitants		60713	
Settlements	Residential buildings	ha	3.0	4643.5	
	Industrial buildings	ha	0.0	1136.4	
	Monuments and squares	ha	0.0	35.4	
	Sports fields	ha	2.2	364.3	
Transportation	Motorways	km	0.0	17.9	
	Primary Road	km	0.0	159.8	
	Secondary Road	km	0.0	46.9	
	Long-distance railway	km	0.0	144.8	
Facilities	Construction for mining or extraction	ha	0.0	83.9	
	Dump site	ha	0.0	39.4	
	Dams	km	0.0	0.4	
Land use	Airfield	ha	32.1	17205.8	
	Permanent crops	ha	0.0	68.9	
	Pastures	ha	0.7	6342.7	
	Heterogeneous agricultural areas	ha	2.6	9917.4	
	Forests	ha	0.0	38434.2	
	Shrub and/or herbaceous vegetation association	ha	0.0	1391.5	
Other		ha	5.5	6811.1	

Map Information

Over the 12-14 October 2020, an extreme weather situation has affected the entire area of the Slovak Republic, and Central Europe, with heavy rainfall and strong winds. Both red and orange alerts were issued by the Slovak Hydro-meteorological Institute. The greatest damages are reported in the Košice, Prešov, Banská Bystrica and Zvolen Regions. The overflow of several rivers is reported, with the Slna, Hornád, and Morava River expected to overflow in the near future, with floods affecting many areas and blocking roads.

The present map shows the delineation product in the area of Zvolen (Slovakia). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. "Not analysed" indicates an area that could not be analysed in any of the post-event images. The estimated geometric accuracy (RMSE) is 12.5 m or better, from native positional accuracy of the background satellite image.

Relevant date records (UTC)

Event	13/10/2020 08:00	Situation as of	15/10/2020 16:34
Activation	14/10/2020 16:53	Map production	16/10/2020

Data sources

Pre-event image: Sentinel-2A/B (2020) (acquired on 09/09/2020 at 09:50 UTC, GSD 10 m, approx. 0% cloud coverage in AOI, 0° off-nadir angle) provided under COPERNICUS by the European Union and ESA.
Post-event image: Sentinel-1A/B (2020) (acquired on 15/10/2020 at 16:34 UTC, GSD 10 m) provided under COPERNICUS by the European Union and ESA.

Base vector layers: OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames 2015, Global Administrative Areas (2012), refined by the producer.
Inset maps: JRC 2013, EuroBoundaryMap 2017 © EuroGeographics, Natural Earth 2012, CCM River DB © EUJRC2007, GeoNames 2013.

Population data: GHS - Population Grid © European Commission, 2019
https://ghsl.jrc.ec.europa.eu/ghs_prod2019.php
Digital Elevation Model: SRTM (90 m)

Disclaimer

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Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

Delivery formats are Layered Geospatial PDF, GeoJPEG and vector (ESRI shapefiles, Google Earth KML, GeoJSON).

Map produced by GAF AG released by SERTIT (ODO).

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