

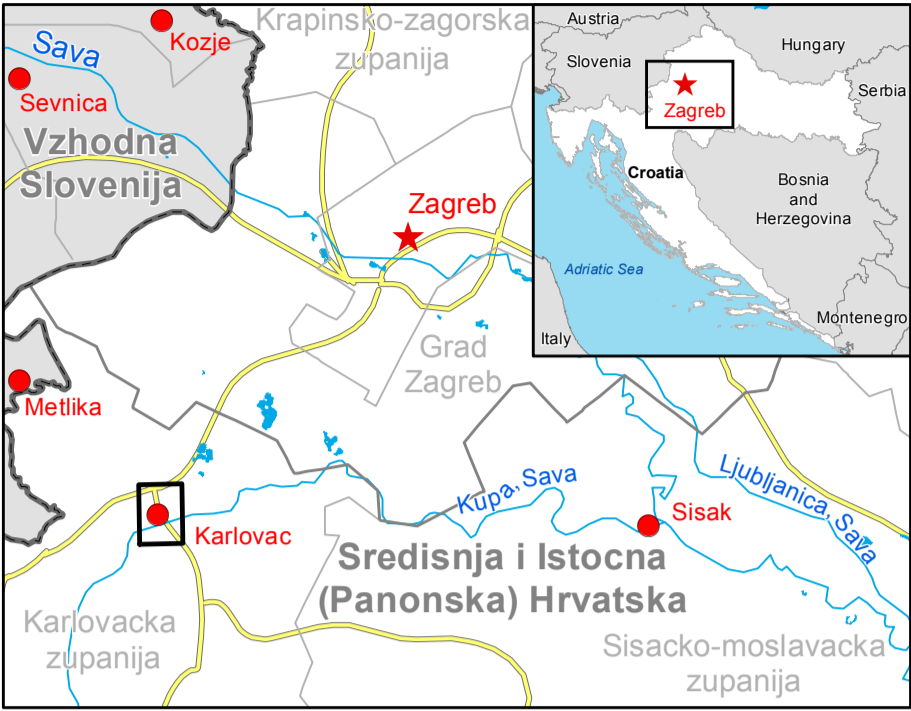
GLIDE number: N/A Activation ID: EMSR-101
Product N.: 01Karlovac, v1

Karlovac - CROATIA

Flood - 14/09/2014

Delineation Map - Detail

Production date: 16/09/2014



Cartographic Information

1:15000 Full color ISO A1, medium resolution (200 dpi)

0 0,25 0,5 1 km

Grid: WGS 1984 UTM Zone 33N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend

- Crisis Information**
 - Flooded Area (15/09/2014)
- General Information**
 - Area of Interest
- Point of Interest**
 - Educational
 - Institutional
 - Medical
 - Religious
 - Transportation
 - Cemetery
 - Stadium
- Settlements**
 - Populated Place
 - Residential
 - Industrial
 - Recreational
 - Urbanized Multi-functional
- Hydrology**
 - Dam
 - Lake
 - River

Consequences within the detail AOI on 15/09/2014					Affected	Total in AOI
Flooded area		ha			847	43912
Estimated population		Inhabitants			1	699
Settlements						
	Residential	ha			1	84
	Industrial	ha			2	3
	Recreational	ha			0	3
	Urbanized	ha				

Map Information

Due to severe raining in last days, extremely high water level is recorded on almost all rivers in the northern part of Croatia. Several villages affected by floods have declared emergency situation. The Mura, Sava, Sutila, Kupa and Lonja rivers have all flooded with Sava, rising up to the highest level that has been observed in the last decades. The core users of the maps are Disaster Response Authorities involved in operations.

Data Sources

Inset maps based on: Administrative boundaries (JRC 2013, GISCO 2010, © EuroGeographics), Hydrology (Natural Earth, 2012, CCM River DB © EU-JRC 2007), Settlements (Geonames, 2013).
Background digital orthophotos © 2014 courtesy of Republic of Croatia (acquired in 2013, GSD 2 m, 0% cloud coverage). TerraSAR-X © Infoterra GmbH (acquired on 15/09/2014 16:41 UTC, GSD 5 m).
Base vector layers based on OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames (approx. 1:10.000, extracted on 14/09/2014) refined by e-GEOS. Source information is included in vector data.
Population data: Landsat 2010 © UT BATTELLE, LLC.
All Data sources are complete and with no gaps.

Dissemination/Publication

Delivery formats are GeoTIFF, GeoPDF, GeoJPEG and vectors (shapelite and KML formats).


Framework

The products elaborated in the framework of current mapping in rush mode activation are realized to the best of our ability, within a very short time frame during a crisis, optimising the available data and information. All geographic information has limitations due to scale, resolution, date and interpretation of the original data sources. The products are compliant with GIO-EMS RUSH Product Portfolio specifications.

Map Production

The present map shows the flood delineation in the area of Karlovac (CROATIA). The basic topographic features are derived from public datasets, refined by means of visual interpretation of pre-event orthophotos (© 2014 courtesy of Republic of Croatia). Thematic layers assessing the delineation of the event, have been derived from post-event image TerraSAR-X (acquired on 15/09/2014 16:41 UTC).
All satellite images have been radiometrically enhanced using SRTM elevation data. The estimated thematic accuracy of this product is 85% or better, based on previous experience using high-resolution SAR for flood extent delineation. Please be aware that the thematic accuracy might be lower in urban and forested areas due to known limitation of the analysis technique.
Only the area enclosed by the Area of Interest has been analyzed.
Map produced on 16/09/2014 by e-GEOS under contract 257219 with the European Commission. All products are © of the European Commission.
Name of the release inspector (quality control): GAF AG (ODO).
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Map products available at <http://emergency.copernicus.eu/mapping/list-of-components/EMSR101>



Flood

- Civil Protection
- Response
- Delineation Map - Detail
- Planning
- TerraSAR-X © Infoterra GmbH
- 14-09-2014

