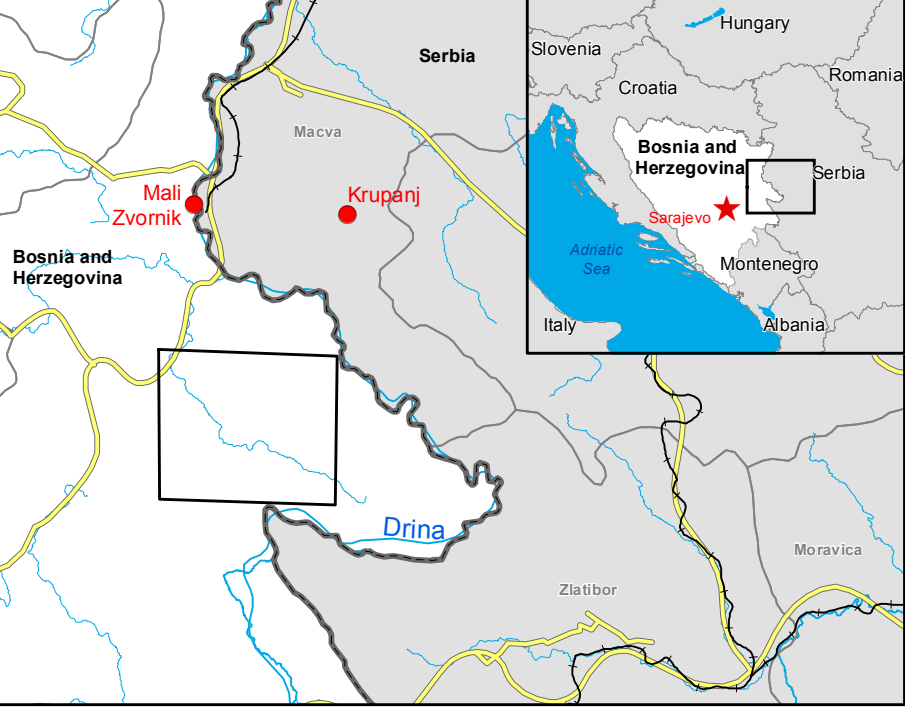


GLIDE number: N/A Activation ID: EMSR-087  
Product N.: 03Vlasenica, v1

**Vlasenica**  
**BOSNIA AND HERZEGOVINA**  
**Flood - 13/05/2014**  
**Delineation Map - Detail 02**  
Production date: 20/05/2014



**Cartographic Information**

1:37000 Full color ISO A1, medium resolution (200 dpi)  
0 0.5 1 2 km  
Grid: WGS 1984 UTM Zone 34N map coordinate system  
Tick marks: WGS 84 geographical coordinate system

**Legend**

- General Information**  
Area of Interest
- Hydrology**  
Stream
- Industry / Utilities**  
Quarry
- Settlements**  
Populated Place  
Residential  
Industrial
- Point of Interest**  
Educational  
Religious  
Cemetery
- Transportation**  
Primary Road  
Secondary Road  
Local Road

Consequences within the DTL02 AOI on 18/05/2014					Affected	Total in AOI
Flooded/Affected area				ha	0	53495
Estimated population				Inhabitants	0	73
Settlements	Industrial			ha	0	498
	Residential			ha	0	6.5
Transportation	Primary roads			km	0	77
	Secondary roads			km	0	99
	Local roads			km	0	773
Utilities	Quarry			ha	0	

**Map Information**

On 13 May 2014, heavy rainfalls and widespread flooding hit large parts of Bosnia and Herzegovina. Heavy rainfall continues to affect large parts, in particular the region of Doboj and Zenica. 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, Transportation (Natural Earth, 2012, CCM River DB © EU-JRC 2007), Settlements (Geonames, 2013).  
Landsat® U.S. Geological Survey acquired on 12/03/2014, GSD 15m, approx.0% cloud coverage).  
RapidEye® BlackBridge (acquired on 22/10/2013 10:46 UTC, GSD 6 m 5% cloud coverage).  
RADARSAT-2 © MDA (15m resolution, acquired on 18/05/2014 16:28 UTC).  
Base vector layers based on OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames (approx. 1:10,000, extracted on 18/05/2014), refined by e-GEOS. Source information is included in vector data.  
Elevation data: SRTM (90m posting) or EU-DEM (25m posting). Height in meters above mean sea level.  
Population data: Landscan 2010 © UT BATTELLE, LLC.  
All Data sources are complete and with no gaps.

**Dissemination/Publication**

No restrictions on the publication of the mapping apply.  
Delivery formats are GeoTIFF, GeoPDF, GeoJPEG and vectors (shapefile 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 basic topographic features such as transportation, hydrology and settlements in the area of Vlasenica (BOSNIA AND HERZEGOVINA). These basic topographic features are derived from public datasets, refined by means of visual interpretation of pre-event satellite imagery from RapidEye® BlackBridge (acquired on 22/10/2013 10:46 UTC, GSD 6 m, approx. 5% cloud coverage) and Landsat® U.S. Geological Survey acquired on 12/03/2014, GSD 15m, approx.0% cloud coverage). The thematic layer assessing the delineation of the event has been derived from RADARSAT-2 © MDA post event imagery (15m resolution, acquired on 18/05/2014 at 16:28 UTC). The estimated geometric accuracy of this product is 5m or better, from native positional accuracy of the background satellite image of the aerial orthoimages. The thematic accuracy of this product is 85% or better, as it is based on previous experience in using medium-resolution SAR images 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. Besides this, no flooded area has been detected over the region. Only the area enclosed by the Area of Interest has been analyzed.  
Map produced on 20/05/2014 by e-GEOS under contract 257219 with the European Commission. All products are © of the European Commission.  
Name of the release inspector (quality control): e-GEOS (ODO).  
E-mail: rush@ems-gmes.eu

Map products available at <http://emergency.copernicus.eu/mapping/list-of-components/EMSR087>

