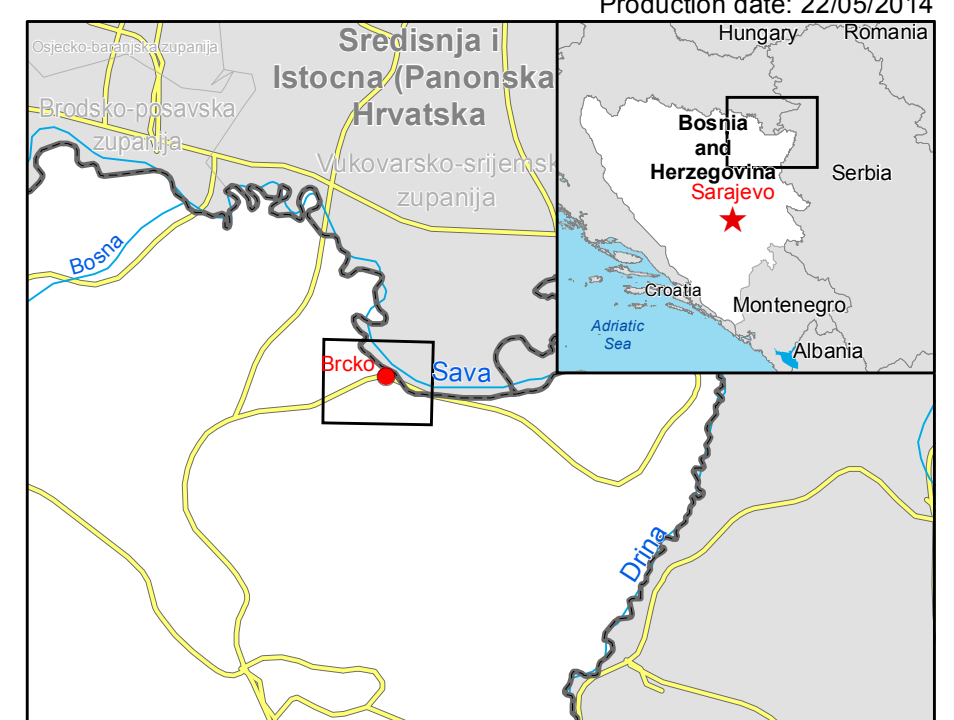


GLIDE number: FF-2014-000059-BIH Activation ID: EMSR-087
Product N.: 06BRCKO_v1

Brcko BOSNIA AND HERZEGOVINA Flood - 13/05/2014 Delineation Map - Detail

Production date: 22/05/2014



Cartographic Information

1:22000 Full color ISO A1, medium resolution (200 dpi)



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

Legend

- | | | | |
|---|--|--|------------------------------------|
| Crisis Information
Flooded Area (22/05/2014 9:44 UTC)
Area of Interest | Settlements
Populated Place
Residential
Cemetery
Commercial
Green Area
Industrial
Recreational
Transportation | Transportation
Bridge
Crossing
Primary Road
Secondary Road
Local Road
Railway | Hydrology
River
Canal |
| Administrative boundaries
International Boundary
Region | Point of Interest
Medical
Religious
Cemetery
Stadium | Industry / Utilities
Quarry | |

Consequences within the detail AOI on Bosnian territory on 22/05/2014				
		Affected	Total in AOI	
Flooded area	ha	68.3	7590.0	
Estimated population	ha	260	376.0	
Settlements	ha	1.9	2.8	
Industrial	ha	0	10.1	
Residential	ha	10.16	2993.6	
Recreational	ha	0	15.9	
Transportation	ha	0	91.2	
Green Area	ha	22.65	28.0	
Cemetery	ha	0	18.4	
Quarry	ha	4.83	15.7	
Utilities	ha	0	27.6	
Transportation	km	61.5	268.4	
Primary Road	km	0	0	
Secondary Road	km	0	0	
Local Road	km	0	0	
Bridge	No	0	0	

Map Information

On 13 May 2014, heavy rainfalls and widespread flooding hit large parts of Bosnia and Herzegovina. Heavy rainfall continued 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), SPOT6 © Airbus Defence and Space 2014 (acquired on 22/05/2014 09:44 UTC, GSD 1.5 m, approx. 0% cloud coverage). Base vector layers based on OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames (approx. 1:10,000, extracted on 20/05/2014), refined by GAF AG. Source information is included in vector data. Elevation data: SRTM (90 m posting) or EU-DEM (25 m 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 app.
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 Brcko (BOSNIA AND HERZEGOVINA). These basic topographic features are derived from public datasets, refined by means of visual interpretation of pre-event orthoimagery from RapidEye © Blackbridge (acquired on 21/03/2014 10:49 UTC, GSD 6.5 m, 0% cloud coverage). Thematic layers, assessing the delineation of the event, have been derived from post-event image SPOT6 © Airbus Defence and Space 2014 (acquired on 22/05/2014 09:44 UTC, GSD 1.5 m) Ltd. All rights reserved. All satellite images have been radiometrically enhanced and orthorectified with RPC approach (using SRTM elevation data). The estimated geometric accuracy of this product is 35 m CE90 or better, from native positional accuracy of the background satellite image. The estimated thematic accuracy of this product is 85% or better, as it is based on visual interpretation of recognizable items on high resolution optical imagery. Shadowed areas are zones of lower interpretation accuracy due to the poorer image radiometry. Only the area enclosed by the Area of Interest within the Bosnian territory has been analyzed. Map produced on 22/05/2014 by GAF AG under contract 257219 with the European Commission. All products are © of the European Commission. Name of the release inspector (quality control): e-GEOS (ODD). E-mail: rush@ems-gmes.eu Map products available at <http://emergency.copernicus.eu/mapping/list-of-components/EMSR087>



Flood

- Civil Protection
- Response
- Delineation Map - Detail
- Planning
- SPOT6 © Airbus Defence and Space
- 13-05-2014

