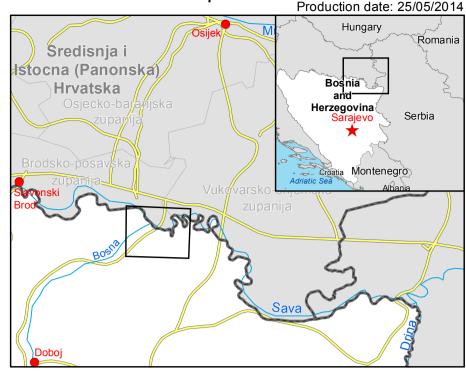


GLIDE number: FF-2014-000059-BIH

Activation ID: EMSR-087 Product N.: 01DOBOJ, v1

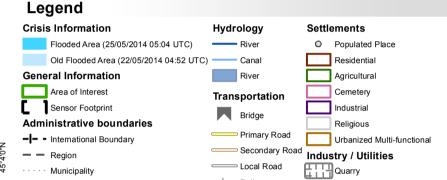
Doboj BOSNIA AND HERZEGOVINA Flood - 13/05/2014 Delineation Map - Detail 01 Monit 03 Production date: 25/05/2014



Cartographic Information



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



Consequences within the detailed AOI on Bosnian Territory on 25/05/2014				
6 8			Affected	Total in AOI
Flooded area		ha 3021		
Estimated population		Inhabitants		42600
Settlements	Industrial	ha	7,1	76,0
	Residential	ha	43,5	1193,1
	Cemetery	ha	0,1	11,1
Utilities	Quarry	ha	3,5	9,1
Transportation	Primary Road	km	0,4	20,9
	Secondary Road	km	0,3	31,4
	l	1		

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

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). RapidEye © Blackbridge (acquired on 23/10/2013 10:48 UTC and 21/03/2014 10:49 UTC, GSD 6.5 m, 0% cloud coverage), all rights reserved.

Pleiades © Airbus Defence and Space 2014 (acquired on 23/05/2014 10:03 UTC, GSD 0.5 m) Ltd. All rights reserved. Radarsat-2 © MDA (acquired on 22/05/2014 04:52 UTC and 25/05/2014 05:04 UTC, GSD 5

m) Ltd. All rights reserved.

Base vector layers based on OpenStreetMap © OpenStreetMap contributors, refined by GAF AG. Source information is included in vector data.

Population data: Landscan 2010 © UT BATTELLE, LLC.

Elevation data: SRTM (90 m posting). Hegical meters above mean sea level.

Dissemination/Publication

No restrictions on the publication of the mapping apply.

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

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 Doboj (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 23/10/2013 10:48 UTC, GSD

event ortholmagery from RapidEye © Blackbridge (acquired on 23/10/2013 10:48 UTC, GSD 6,5 m, 0% cloud coverage).

Thematic layers, assessing the delineation of the event, have been derived from post-event images Radarsat-2 © MDA (acquired on 22/05/2014 04:52 UTC, GSD 15 m and 25/05/2014 05:04 UTC, GSD 5 m) Ltd. All rights reserved and Pleiades © Airbus Defence and Space 2014 (acquired on 23/05/2014 10:03 UTC, GSD 0.5 m) Ltd. All rights reserved.

All satellite images have been radiometrically enhanced and orthocorrected with RPC approach (using SRTM elevation data).

The estimated geometric accuracy of this product is 45 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 has been analyzed within the Bosnian Map produced on 25/05/2014 by GAF AG under contract 257219 with the European Commission. All products are © of the European Commission.

Name of the release inspector (quality control): GAF AG (ODO). E-mail: rush@ems-gmes.eu

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



Delineation Map - Detail Monit 03 🕦 RADARSAT-2 © MDA





