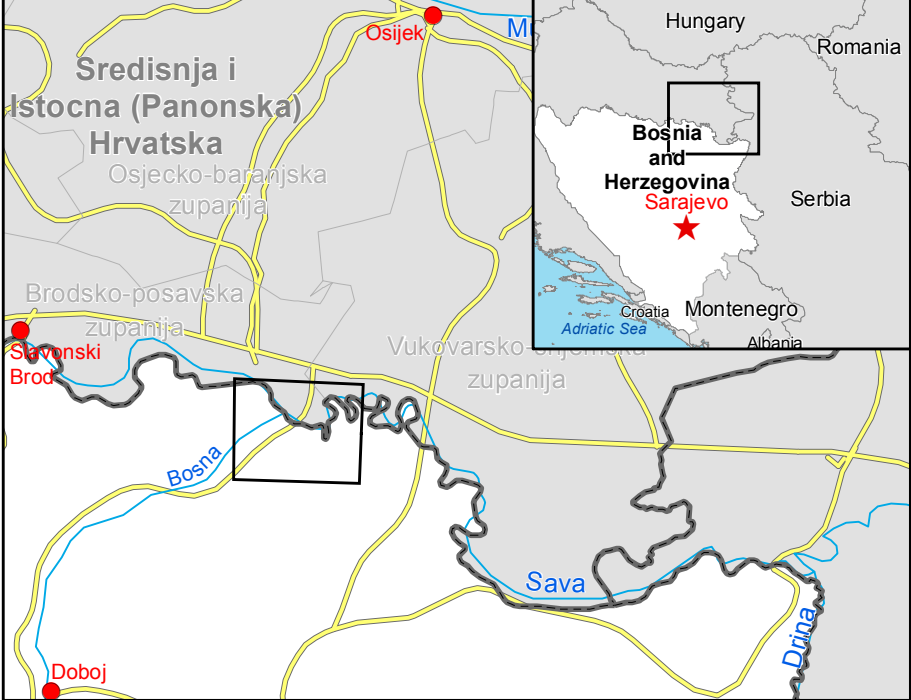


Doboj
BOSNIA AND HERZEGOVINA
Flood - 13/05/2014
Delineation Map - Detail 01 Monit01
Production date: 22/05/2014



Cartographic Information

1:26000 Full color ISO A1, medium resolution (200 dpi)

0 0.25 0.5 1 km

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

Legend

Crisis Information
Flooded Area (22/05/2014 04:52 UTC)

General Information
Area of Interest
Sensor Footprint

Administrative boundaries
Region
Municipality

Point of Interest
Medical
Religious

Settlements
Residential
Agricultural
Cemetery
Educational
Industrial
Religious
Urbanized Multi-functional

Transportation
Bridge
Motorway
Primary Road
Secondary Road
Local Road
Railway

Hydrology
River
Canal
River
River

Industry / Utilities
Quarry
Processing Facility

Consequences within the detailed AOI on Bosnian Territory on 22/05/2014			
		Affected	Total in AOI
Flooded area		ha	3705.9
Estimated population		inhabitants	2010
Settlements		ha	76.0
Industrial	ha	58.4	1193.1
Residential	ha	0.1	1.0
Religious	ha	0.1	35.1
Urbanized Multi-functional	ha	0	3.3
Educational	ha	0.7	11.1
Cemetery	ha	3.8	9.1
Utilities		ha	0.2
Quarry	ha	0.2	3.9
Processing Facility	km	1.3	20.9
Transportation		km	1.1
Motorway	km	15	131.6
Primary Road	km	0.1	19.6
Secondary Road	km		
Local Road	km		
Railway	km		

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),
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.
RadarSat-2 © MDA (acquired on 22/05/2014 04:52 UTC, GSD 15 m).
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). Height in meters above mean sea level.
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 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 6.5 m, 0% cloud coverage).
Thematic layers, assessing the delineation of the event, have been derived from post-event image RadarSat-2 © MDA (acquired on 22/05/2014 04:52 UTC, GSD 15 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 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 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): GAF AG (ODO).
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 Monit01
Planning
RadarSat-2 © MDA
13-05-2014

