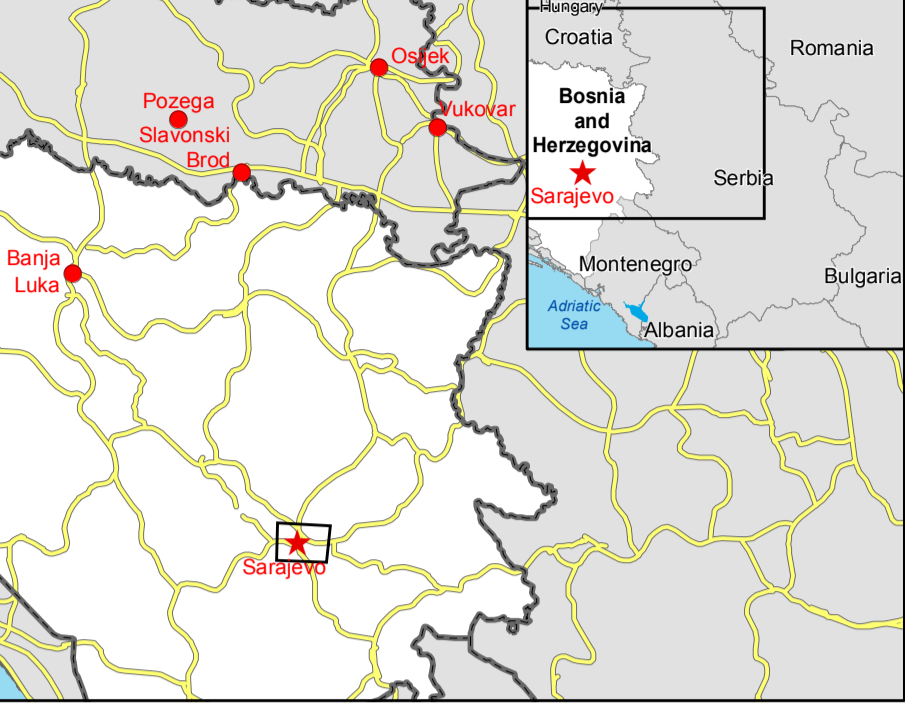


Zenica
BOSNIA AND HERZEGOVINA
Flood - 13/05/2014
Reference Map - Detail 02
Production date: 18/05/2014



Cartographic Information

1:32000 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
- Sensor Footprint

Hydrology

- River
- Stream
- Lake

Transportation

- Bridge
- Helpaid
- Railway
- Runway
- Motorway
- Primary Road
- Secondary Road
- Local Road
- Aerodrome
- Helpport

Administrative boundaries

- Region
- Province

Settlements

- Populated Place
- Residential
- Green Area
- Industrial
- Recreational
- Transportation

Point of Interest

- Educational
- Institutional
- Medical

Industry / Utilities

- Quarry

Exposure within the detail AOI		
Estimated population		inhabitants
Settlements		ha
Industrial	ha	1516.7
Residential	ha	30288.7
Recreational	ha	188.7
Transportation	ha	52.4
Green Area	ha	614
Quarry	ha	50.5
Utilities		
Transportation		
Motorway	km	1.3
Primary	km	48.6
Secondary	km	75.3
Local Road	km	584.9
Railway	km	21.7
Runway	km	3.8
Bridge	No.	56
Helpaid	No.	2
Aerodrome	ha	188.6

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, GISC0 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, GSD 6.5 m, 0% cloud coverage), all rights reserved.

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

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

Population data: Landscan 2010 © UT BATTELLE, LLC.

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 Zenica (BOSNIA AND HERZEGOVINA). These basic topographic features are derived from public datasets, refined by means of visual interpretation of pre-event orthoregistry from RapidEye © Blackbridge (acquired on 23/10/2013 10:48 UTC, GSD 6.5m, 0% cloud coverage).

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

The estimated geometric accuracy of this product is 45m 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.

Map produced on 18/05/2014 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 (ODO).

E-mail: rush@ems-gmes.eu

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

Flood

- Civil Protection
- Response
- Reference Map - Detail
- Planning
- RapidEye © Blackbridge
- 13-05-2014