



GLIDE number: N/A Activation ID: EMSR-037
Product N.: 02SanBenedettoValdiSambro_v1

San Benedetto Val di Sambro (BO) - ITALY
Landslide - 11/04/2013
Reference Map - Detail
RESTRICTED USE

Production date: 18/04/2013



Cartographic Information

1:7000 Full color ISO A1, medium resolution (200 dpi)



Map Coordinate System: WGS 1984 UTM Zone 32N
Graticule: WGS 84 geographical coordinates

Legend

- | | | |
|----------------------------|-------------------|---------------------------------|
| General Information | Hydrology | Physiography |
| Area of Interest | River | Contour Lines and Elevation (m) |
| Populated Place | Stream | Transportation |
| Settlements | Lake | Bridge |
| Industrial | Point of Interest | Transportation |
| Religious | Cemetery | Secondary Road |
| Residential | | Local Road |

Potentially Affected Population	Exposure within the Detail Area of Interest	
	Industrial	Religious
Potentially Affected Assets	319	
	Residential 316	Religious 2

Map Information

Following the extraordinary heavy rains of the last weeks in the Emilia-Romagna region, several landslides occurred. The landslides are spread throughout the region. A synthetic description of the situation is the following:
- 1400 landslide events till now, more are likely to occur;
- 60 people evacuated;
- 100-150 municipalities affected, spread over 11,000 km².
The worst affected areas include the municipalities of Capriglio, Signatico and Boschetto, close to Tizzano Val Parma (Parma) and San Benedetto Val di Sambro (Bologna).
The users of the map are Civil Protection authorities involved in field operations. The purpose of the map product is the support of emergency response activities.

Data Sources

Inset maps based on: Administrative boundaries (JRC 2013, GISCO 2010, © EuroGeographics), Hydrology (CCM2 2007 © JRC), Transportation (Natural Earth, 2012), Settlements (OpenStreetMap, 2013).
Background imagery @ courtesy of AGEA (acquired in 2010, GSD 0.5 m, 0% cloud coverage).
Base vector layers based on Regione Emilia-Romagna datasets (settlements, <http://dati.emilia-romagna.it/>, approx. 1:5,000, extracted on 15/04/2013), Geoportale Nazionale (transportation and hydrology, <http://wms.pcn.minambiente.it/CGN>, approx. 1:15,000, extracted on 17/04/2013), OpenStreetMap and Geonames (approx. 1:10,000, extracted on 15/04/2013), refined by ITHACA.
Population estimates based on Landscan 2010 © UT BATTELLE, LLC.

Dissemination/Publication

RESTRICTED USE.
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 San Benedetto Val di Sambro (Bologna). These basic topographic features are derived from public datasets, refined by means of visual interpretation of pre-event aerial orthoimages © 2013 courtesy of AGEA (acquired in 2010, GSD 0.5 m, 0% cloud coverage).
The estimated geometric accuracy of this product is 5 m CE90 or better, from native positional accuracy of the background aerial orthoimage.
The estimated thematic accuracy of this product is 85% or better, as it is based on visual interpretation of recognizable items on very high resolution optical imagery.
Only the area enclosed by the Area of Interest has been analyzed.
Map produced on 18/04/2013 by ITHACA under contract 257219 with the European Commission. All products are © of the European Commission.
Name of the release inspector (quality control): e-GEDS (ODD).
E-mail: rush@ems-gmes.eu