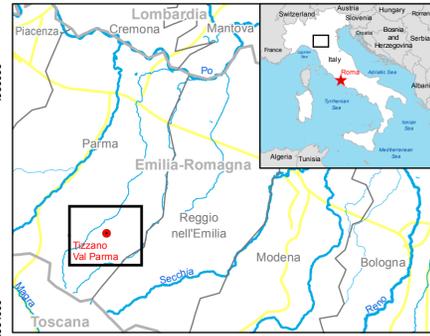


GLIDE number: N/A Activation ID: EMSR-037
Product N.: 01TizzanoValParma_v1

Tizzano Val Parma (PR) - ITALY Landslide - 11/04/2013 Delineation Map - Overview RESTRICTED USE

Production date: 17/04/2013



Cartographic Information

1:30000 Full color ISO A1, medium resolution (200 dpi)



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

Legend	
Crisis Information	Settlements
Landslide (16/04/2013)	Cemetery
Area of Interest	Educational
General Information	Green Area
Ikonos-2 (16/04/2013 9:52 GMT)	Industrial
Not analysed (Geometric Distortion)	Institutional
Other or Unknown	Other or Unknown
Populated Place	Recreational
	Religious
	Residential
	Sports Ground
	Hydrology
	River
	Stream
	Canal
	Lake
	Reservoir
	Point of Interest
	Institutional
	Medical
	Religious
	Transportation
	Physiography
	Contour Lines and Elevation (m)
	Secondary Road
	Local Road

Consequences within the Overview Area of Interest on 16/04/2013	
Potentially Affected Population	< 30 inhabitants
Landslide Affected Area	128.4 ha

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).
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 (CCME 2007 © JRC), Transportation (Natural Earth, 2012), Settlements (OpenStreetMap, 2013).
Base vector layers based on Regione Emilia-Romagna datasets (settlements, http://dati.emilia-romagna.it, approx. 1:5.000, extracted on 15/04/2013), OpenStreetMap and Geonames (approx. 1:10.000, extracted on 15/04/2013), refined by ITHACA.
Population estimates based on LandScan 2010 © UT BATTELLE, LLC.
Elevation data: EU-DEM (25 m posting).
All Data sources are complete and with no gaps.

Dissemination/Publication
RESTRICTED USE.
Delivery formats are GeoTIFF, GeoPDF, GeoJPEG and vectors (shapfile 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, optimizing 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 the delineation of the landslide affecting the area of Tizzano Val Parma (Parma), derived by means of visual interpretation of post-event Ikonos-2 image © by GeoEye (acquired on 16/04/2013 9:52 GMT, GSD 1.6 m, approx. 20% cloud coverage, 51.6° off-nadir angle). The 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).
Post-event satellite imagery has been radiometrically enhanced, ortho-projected with RPC approach (using EU-DEM elevation data) and coregistered to the pre-event aerial imagery. 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 60% or better, as it is based on visual interpretation of recognizable items on very high resolution optical imagery acquired with a 51.6° off-nadir angle.
Map produced on 17/04/2013 by ITHACA under contract 257219 with the European Commission. All products are © of the European Commission.
Name of the release inspector (quality control): e-GEOS (ODO).
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