



GLIDE number: N/A Activation ID: EMSR-053
Product N.: 01Ginosa, v2

Ginosa - ITALY Flood - 07/10/2013 Grading Map - Detail 01

Production date: 18/10/2013



Cartographic Information

1:28000 Full color ISO A1, medium resolution (200 dpi)

0 0.5 1 2 km

Grid: WGS 1984 UTM Zone 33N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend

- Crisis Information**
 - Road Block
- Flood Grading**
 - Highly Affected
 - Moderately Affected
- Transportation Grading**
 - Road, Highly Affected
 - Road, Moderately Affected
- Settlement Grading**
 - Destroyed
 - Highly Affected
 - Possibly Affected
- General Information**
 - Area of Interest
 - Sensor Footprint
- Settlements**
 - Populated Place
 - Residential
 - Agricultural
 - Industrial
 - Medical
 - Recreational
- Hydrology**
 - Reservoir
 - River
 - Stream
 - Canal
- Industry / Utilities**
 - Quarry
 - Bridge
 - Station
 - Railway
 - Primary Road
 - Secondary Road
 - Local Road
- Point of Interest**
 - Medical

Consequences within the detail AOI on 17/10/2013									
Affected area	Inhabitants in related area	Destroyed		Highly affected		Moderately affected		Possibly affected	
		ha	no	ha	no	ha	no	ha	no
Total	Total	0	2	0	1	152	6	154	5496
Settlements	Settlements	0	1	0	0	4	0	0	507
Transportation	Roads	0	3	5	0	8	0	8	604
	Rail lines	0	0	0	0	0	0	0	19
	Stations	0	0	0	0	0	0	0	3
Utilities	Total	0	0	0	0	0	0	0	64

Full table available in vector data package.

Map Information

From October 7th 2013 on heavy rainfall caused extensive flash flood events across the western side of the province of Taranto and the bordering coastal areas of the province of Matera, claiming four casualties in the particularly bad affected towns of Ginosa and Marina di Ginosa. Other towns including Castellana, Castellana Marina and Palagianello suffered severe infrastructural damage.

The core users of the map are the national civil protection authority and in-field survey teams trying to gain an overview of the situation.

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).

Pre-event aerial orthomosaics © 2013 courtesy of AGEA (acquired in 2010, GSD 0.5 m).

Pleiades © Astrium (acquired on 17/10/2013 at 9:40 UTC, GSD 2m, 0% cloud coverage) provided under ESA CSC-DA-DWH License.

Base vector layers based on Geoportale Nazionale © Ministero Dell'Ambiente (<http://www.pcn.minambiente.it/>), OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames (approx. 1:10 000, extracted on 11/10/2013), 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.

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 GEO-EMS RUSH Product Portfolio specifications.

Map Production

The present map shows the flood delineation in the area of Ginosa (Italy). The basic topographic features such as transportation, hydrology and settlements have derived from public datasets, refined by means of visual interpretation of pre-event aerial orthomosaics © 2013 courtesy of AGEA.

Thematic layers, assessing the delineation of the event, have been derived from post-event image Pleiades © Astrium (2 m resolution, acquired on 17/10/2013, GSD 2 m, 0% cloud coverage). Post-event satellite image has been orthorectified with RPC approach (using SRTM elevation data and GCPs collected on the pre-event aerial orthomosaics).

The following flood grading classes have been defined: highly affected (affected areas inside or close to riverbeds) and moderately affected (crop fields covered in mud).

The estimated geometric accuracy of this product is 5 m CE90 or better, from native positional accuracy of the pre-event aerial orthomosaic.

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.

Map produced on 18/10/2013 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).

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