



GLIDE number: N/A Activation ID: EMSR-053
Product N.: 01Ginosa_v1

Ginosa - ITALY Flood - 07/10/2013 Grading Map - Detail 02

Production date: 18/10/2013



Cartographic Information

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



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

Legend

- Crisis Information**
 - Road Block
- Flood Grading**
 - Moderately Affected
- General Information**
 - Area of Interest
- Administrative boundaries**
 - Region
 - Municipality
- Settlements**
 - Residential
 - Agricultural
 - Green Area
 - Industrial
 - Recreational
 - Not Classified
- Hydrology**
 - Reservoir
 - Coastline
 - River
 - Stream
 - Canal
 - Lake
- Industry / Utilities**
 - Quarry
- Transportation**
 - Bridge
 - Station
 - Railway
 - Primary Road
 - Secondary Road
 - Local Road
- Point of Interest**
 - Recreational

| Consequences within the detail AOI on 17/10/2013 | | | | |
|--|------------------------------|--------------------------|--------------|---|
| | | Moderately affected area | Total in AOI | |
| Affected area | Inhabitants in related areas | ha | 80 | |
| | Residential | ha | 0 | |
| | Agricultural | ha | 0 | |
| | Green Area | ha | 0 | |
| | Industrial | ha | 0 | |
| | Recreational | ha | 0 | |
| Transportation | Not Classified | ha | 0 | |
| | Primary roads | km | 0 | |
| | Secondary roads | km | 0 | |
| | Local roads | km | 1 | |
| | Railways | km | 0 | |
| | Bridges | km | 2 | |
| | Stations | No. | 0 | |
| | Utilities | Quarry | ha | 0 |

Map Information
From October 7th 2013 an 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 Castellaneta, Castellaneta 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).
Pleiades (c) Astrium (acquired on 17/10/2013 at 9:40 UTC, GSD 2 m, 0% cloud coverage).
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 ITHACA. Source information is included in vector data.
Population data: Landsat 2010 © UT BATTELLE, LLC.
Elevation data: EU-DEM (25m posting).
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 the flood delineation in the area of Ginosa (Italy). The basic topographic features such as transportation, hydrology and settlements have been derived from public datasets, refined by means of visual interpretation of pre-event aerial orthomages (c) 2013 courtesy of AGEA.
Thematic layers, assessing the delineation of the event, have been derived from post-event image Pleiades (c) Astrium (2 m resolution, acquired on 17/10/2013 at 9:40 UTC, 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 orthomages).
The following flood grading classes have been defined: highly affected (affected areas inside or close to rivers) 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 orthomages.
The estimated thematic accuracy of this product is 60% or better, as it is based on visual interpretation of recognizable items on high resolution optical imagery acquired several days after the flash-flood event.
Map produced on 18/10/2013 by ITHACA under contract 257219 with the European Commission. All products are © of the European Commission.
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Civil Protection
Response
Grading Map - Detail
Planning
Pleiades (c) Astrium
07-10-2013