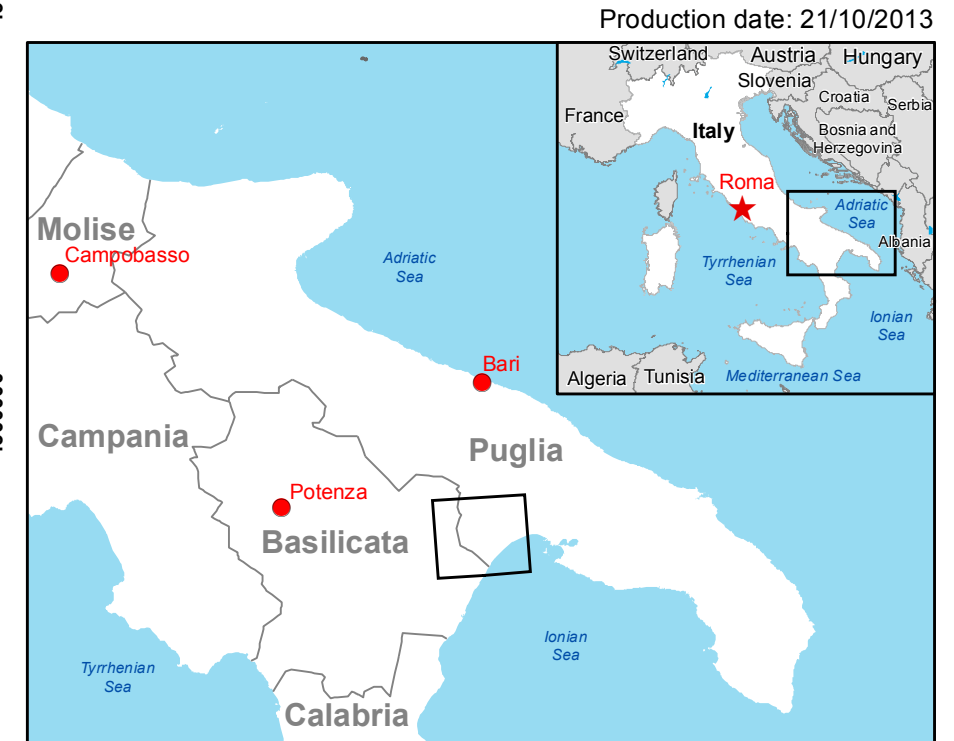




Ginosa - ITALY

Flood - 07/10/2013

Grading Map - Overview



Cartographic Information

1:70000 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 | Hydrology | Industry / Utilities |
| Road Block | Reservoir | Quarry |
| Flood Grading | Coastline | Processing Facility |
| Highly Affected | River | Quarry |
| Moderately Affected | Stream | Transportation |
| General Information | Canal | Station |
| Area of Interest | Lake | Motorway |
| Sensor Footprint | Point of Interest | Primary Road |
| Region | Industrial | Secondary Road |
| Municipality | Institutional | |
| Settlements | Recreational | |
| Populated Place | Religious | |
| Residential | | |
| Industrial | | |

Total flood affected areas: 1226 ha
Full table available in vector data

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, COM River DB © EU-JRC 2007), Settlements (Geonames, 2013).
IKONOS (c) DigitalGlobe (acquired on 17/10/2013 at 9:54 UTC, GSD 4 m, 0% cloud coverage).
Pleades (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 app.
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 orthoimages (c) 2013 courtesy of AGEA.
Thematic layers, assessing the delineation of the event, have been derived from post-event images Pleades (c) Astrium (2 m resolution, acquired on 17/10/2013 at 9:40 UTC, 0% cloud coverage) and IKONOS (c) DigitalGlobe (4 m resolution, acquired on 17/10/2013 at 9:54 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 orthoimages).
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 orthoimages.
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.
Only the area enclosed by the Area of Interest has been analyzed.
Map produced on 21/10/2013 by ITHACA under contract 257219 with the European Commission. All products are © of the European Commission.
Name of the release inspector (quality control): GAF AG (ODO).
E-mail: rush@ems-gmes.eu

Flood

Civil Protection

Response

Grading Map - Overview

Planning

Pleades and IKONOS

07-10-2013