

Epirus - GREECE

Flood - 01/02/2015

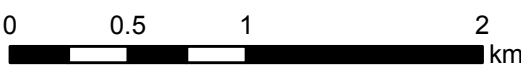
Delineation Map - 01 Detail

Production date: 03/02/2015

Cartographic Information

1:32000

Full color ISO A1, medium resolution (200 dpi)



Grid: WGS 1984 UTM Zone 34N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend

Crisis Information
Flooded Areas
(02/02/2015 16:31 UTC)

General Information
Area of Interest

Sensor Footprint

Administrative boundaries
Region

Settlements
Populated Place

Residential

Industrial

Urbanized Multi-functional

Hydrology

Coastline

Dam

River

Stream

Canal

Lake

Reservoir

River

Point of Interest

Industrial

Institutional

Medical

Religious

Industry / Utilities

Power Station

Transportation

Bridge

Motorway

Primary Road

Secondary Road

Local Road

Consequences within the detail AOI on 02/02/2015

		Affected		Total in AOI
Flooded area	ha			1459
Estimated population	Inhabitants			2450
Settlements	Industrial	ha	0.4	80
	Residential	ha	3.3	1656
	Multi-functional	ha	0	346
Transportation	Primary roads	km	0	33
	Secondary roads	km	0	60
	Motorway	km	0	16
	Local roads	km	0.8	160
	Bridges	No.	0	5



Map Information
Due to the heavy rainfall in the last days, many areas in the western part of Greece have been flooded. The rivers Arachthos, Achéron, Kalamos and Louros have been flooded and damages to infrastructures have been reported. Villages that are located in the delta of Arachthos river have been evacuated for precautionary reasons. The core users of the maps are Disaster Response Authorities involved in the operations.

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).
Sentinel-1 A (acquired on 02/02/2015 16:31 UTC, GSD 10m) provided by the European Space Agency.
ESRI World Imagery © Esri, Digitalglobe (acquired on 05/07/2010, 17/10/2011, and 25/03/2012, GSD 2.5 m, approx. 0% cloud coverage).

Base vector layers based on OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames (approx. 1:10000, extracted on 02/02/2015), refined by ITHACA. Source information is included in vector data.
Population data: LandScan 2010 © UT BATTELLE, LLC.
All Data sources are complete and with no gaps.

Dissemination/Publication
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 Epirus (GREECE). The basic topographic features are derived from public datasets, refined by means of visual interpretation of pre-event ESRI World Imagery.
Thematic layers, assessing the delineation of the event, have been derived from post-event Sentinel-1 A image.
All satellite images have been radiometrically enhanced and geocoded (using SRTM elevation data). The estimated geometric accuracy of this product is 15 m CE90 or better, from native positional accuracy of the satellite images.
The estimated thematic accuracy of this product is 85% or better, based on previous experience in using high-resolution SAR for flood extent delineation. Please be aware that the thematic accuracy might be lower in urban and forested areas due to known limitations of the analysis technique.
Map produced on 03/02/2015 by ITHACA under contract 257219 with the European Commission. All products are © of the European Commission.
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Flood

Civil Protection

Response

Delineation Map - Detail

Planning

Sentinel-1 A © European Space Agency

01-02-2015

Copernicus
The European Earth Observation Programme