



### Baltotopi - GREECE Flood - 30/03/2015 Delineation Map



**Cartographic Information**  
 1:19000 Full color ISO A1, high resolution (300 dpi)  
 0 0.375 0.75 1.5 km  
 Grid: WGS 1984 UTM Zone 34N map coordinate system  
 Tick marks: WGS 84 geographical coordinate system

- Legend**
- |   |   |
|---|---|
| <b>Crisis Information</b>   | <b>Hydrology</b>  |
| <span style="color: blue;">■</span> Flooded Area (29/03/2015 16:24 UTC) | <span style="color: blue;">—</span> River                                 |
| <span style="border: 1px solid green;">□</span> Area of Interest        | <span style="color: blue;">—</span> Canal                                 |
| <span style="border: 1px solid orange;">□</span> Residential            | <span style="color: blue;">—</span> Ditch                                 |
| <span style="border: 1px solid green;">□</span> Agricultural            | <span style="color: blue;">—</span> River                                 |
| <span style="border: 1px solid pink;">□</span> Cemetery                 | <span style="border: 1px solid blue;">□</span> Land Subject to Inundation |
| <span style="border: 1px solid purple;">□</span> Industrial             | <span style="color: grey;">—</span> Secondary Road                        |
| <span style="color: grey;">○</span> Populated Place                     | <span style="color: grey;">—</span> Local Road                            |

**Consequences within the AOI on 29/03/2015**

		Affected	Total in AOI
Flooded area	ha	0	76.7
Estimated population	ha	0	6352
Settlements	Cemetery	ha	2.5
	Industrial	ha	1.9
	Agricultural	ha	22
	Residential	ha	207.5
Transportation	Motorways	km	37
	Local roads	km	6.2

**Map Information**  
 Due to heavy rainfall during last month, extensive damages have been reported in infrastructures and networks along the Stymonas river, in Central Macedonia. Many embankments have been broken, especially in the southern part of the river, flooding the road and rural network, while many hectares of agricultural land have been completely inundated. The affected areas were declared in the state of emergency. The core users of the maps are Disaster Response Authorities involved in the operations.

**Relevant date and time records (UTC)**

Event	30/03/2015 12:00	Last crisis status	29/03/2015 16:24
Activation	31/03/2015 09:43	Map production	02/04/2015

**Data Sources**  
 Sentinel-1A (acquired on 29/03/2015 16:24 UTC, GSD 10 m) provided by the European Space Agency.  
 ESRI World Imagery © ESRI Digitalglobe (acquired on 16/08/2010, GSD 2.5 m, cloud coverage 1%)  
 Base vector layers based on OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames (approx. 1:10000, extracted on 01/01/2011), refined by GAF AG. Source information is included in vector data.  
 Elevation data: SRTM (90 m posting). Height in meters above mean sea level.  
 Population data: Landscan 2010 © UT BATTELLE, LLC.  
 All Data sources are complete and with no gaps.  
 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).

**Dissemination/Publication**  
 Delivery formats are GeoTIFF, GeoPDF, GeoJPEG and vectors (shapefile and KML formats).  
 Map products available in the Copernicus EMS Portal at the following URL:  
<http://emergency.copernicus.eu/mapping/list-of-components/EMSR122>  
 All products are © of the European Union.

**Disclaimer**  
 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 Copernicus EMS Rapid Mapping Product Portfolio specifications.

**Map Production**  
 The present map shows basic topographic features such as transportation, hydrology, settlements, industry and utilities in the area of Baltotopi (GREECE). The layer 'Land subject to inundation' includes areas such as riverbed, river meadow and marsh. These basic topographic features are derived from public datasets, refined by means of visual interpretation of post-event Sentinel-1A images.  
 All satellite images have been radiometrically enhanced, orthorectified with RPC approach (using SRTM elevation data) and coregistered to the pre-event image.  
 The estimated geometric accuracy of this product is 5 m CE90 or better, from native positional accuracy of the background satellite image.  
 The estimated thematic accuracy of this product is 85% or better, as it is based on visual interpretation of recognizable items on very high resolution optical imagery. Shadowed areas are zones of lower interpretation accuracy due to the poorer image radiometry.  
 Only the area enclosed by the Area of Interest has been analyzed.

**Contact**  
 Map produced by GAF AG under contract 259736 with the European Union.  
 Name of the release inspector (quality control): e-GEOS (ODO).  
 E-mail: [rapidmapping@ems-copernicus.eu](mailto:rapidmapping@ems-copernicus.eu)



Area of Interest 02 - Baltotopi