



### Strymonas River - GREECE Flood - 30/03/2015 Delineation Map - Monit 02



#### Cartographic Information

1:75000 Full color ISO A1, high resolution (300 dpi)

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

- #### Legend
- |  |  |   |
|--|--|---|
| <b>Crisis Information</b>  | <b>Hydrology</b>   | <b>Transportation</b>                               |
| <span style="color: blue;">■</span> Flooded Area (02/04/2015 16:23 UTC)          | <span style="color: blue;">—</span> River                      | Bridge  |
| <span style="color: lightblue;">■</span> Old Flooded Area (01/04/2015 16:11 UTC) | <span style="color: blue;">—</span> Canal                      | Helicopter  |
| <span style="color: green;">■</span> Area of Interest                            | <span style="color: blue;">—</span> Ditch                      | Railway   |
| Institutional  | <span style="color: blue;">—</span> Lake                       | Motorway  |
| Medical  | <span style="color: blue;">—</span> Reservoir                  | <span style="color: brown;">—</span> Primary Road   |
| Populated Place  | <span style="color: blue;">—</span> Land Subject to Inundation | <span style="color: brown;">—</span> Secondary Road |
| Built-Up Area  |  | <span style="color: grey;">—</span> Local Road      |

#### Consequences within the AOI on 02/04/2015

	Affected	Total in AOI
Flooded area	ha	7337
Estimated population	Inhabitants	1600
Settlements	Build-Up Area	ha
Transportation	Motorways	km
	Primary roads	km
	Local roads	km
	Secondary roads	km

#### Map Information

Due to heavy rainfall during last month, extensive damages have been reported in infrastructures and networks along the Strymonas 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	02/04/2015 16:23
Activation	31/03/2015 09:43	Map production	03/04/2015

#### Data Sources

Radarsat-2 © MDA (acquired on 02/04/2015 16:23 UTC, GSD 8 m) Ltd. All rights reserved.  
 COSMO-SkyMed © ASI 2015 (acquired on 01/04/2015 16:11 UTC, GSD 5 m) provided by e-GEOS S.p.A., all rights reserved. Provided under ESA GSC-DA DWH License.  
 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, Wikimedia.org GeoNames (approx. 1:10000, extracted on 01/01/2001), refined by GAF AG. User GeoNames information is included in vector data.  
 Elevation data: SRTM (90 m posting). Height in meters above mean sea level.  
 Population data: Landsat 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, GCM 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 the flood delineation in the area in the area of Strymonas (GREECE). The basic topographic features are derived from public datasets, refined by means of visual interpretation of the pre-event ESRI World Imagery. The layer 'Land subject to inundation' includes areas such as riverbed, river meadow and marsh. Thematic layers, assessing the delineation of the event, have been derived from the postevent COSMO-SkyMed and Sentinel-1 A 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.  
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