



Strymonas River - GREECE Flood - 30/03/2015 Delineation Map



Cartographic Information

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

0 1.25 2.5 5 Km

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

Legend

- Crisis Information**
 - Flooded Area delineation (30/03/2015 16:24 UTC)
- General Information**
 - Area of Interest
- Point of Interest**
 - Institutional
 - Medical
- Settlements**
 - Populated Place
 - Built-Up Area
- Hydrology**
 - River
 - Canal
 - Ditch
 - Lake
 - Reservoir
 - Land Subject to Inundation
- Transportation**
 - Bridge
 - Helipoint
 - Railway
 - Motorway
 - Primary Road
 - Secondary Road
 - Local Road

Consequences within the AOI on 29/03/2015			
	ha	Affected	Total in AOI
Flooded area	107	107	4503
Estimated population	Inhabitants	107	107933
Settlements	Build-Up Area	0.1	7951
Transportation	Motorways	0	37
	Primary roads	0	107
	Local roads	6.2	1092
	Secondary roads	0	153

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	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 01/01/2001), 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, GISC0 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, optimizing 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 and Sentinel-1 A image.
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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