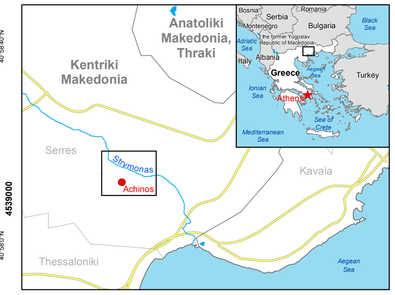
GLIDE number: N/A

Activation ID: EMSR122
Product N.: 03ACHINOS, v2, English

Achinos - 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

N

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

Legend

Crisis Information
- Flooded Area (29/03/2015 16:24 UTC)

General Information
- Area of Interest

Settlements
- Populated Place
- Residential
- Agricultural

Hydrology
- River
- Stream
- Canal
- Land Subject to Inundation
- Lake
- River

Point of Interest
- Educational

Transportation
- Secondary Road
- Local Road

Consequences within the AOI on 29/03/2015				
			Affected	Total in AOI
Flooded area		ha	1255	
Estimated population		Inhabitants	86	2935
Settlements	Residential	ha	0	141
	Agriculture	ha	0	7
Transportation	Secondary roads	km	1.4	25
	Local roads	km	16.2	185

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 9:43	Map production	02/04/2015

Data Sources

Sentinel-1 A (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, 0% cloud coverage).
Base vector layers based on OpenStreetMap © OpenStreetMap contributors, GeoNames (approx. 1:10000, extracted on 31/03/2015), refined by ITHACA. Source information is included in vector data.
Elevation data: SRTM (90m 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

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 of Achinos (GREECE). The basic topographic features are derived from public datasets, refined by means of visual interpretation of 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 post-event Sentinel-1 A images.
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, 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.
Only the area enclosed by the Area of Interest has been analyzed.

Contact

Map produced by ITHACA under contract 259736 with the European Union.
Name of the release inspector (quality control): e-GEOS (ODO).
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Area of Interest 03 - Achinos