

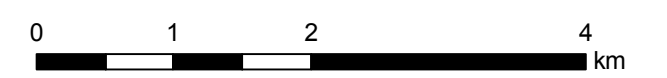
Evros - GREECE Flood - 01/02/2015 Delineation Map - 01 Detail

Production date: 08/02/2015



Cartographic Information

1:55000 Full color ISO A1, low resolution (100 dpi)



Grid: WGS 1984 UTM Zone 35N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend		Hydrology	
	Flooded Area (07/02/2015 16:16 UTC)		Dam
	Area of Interest		River
	Administrative boundaries International Boundary		Point of Interest
	Settlements Populated Place		Transportation
	Built-Up Area		Bridge
			Railway
			Primary Road
			Secondary Road

Consequences within the Detail AOI on 07/02/2015 on Greek territory			
Category	Unit	Affected	Total in AOI
Flooded area	ha	1 223	24 355
Estimated population	inhabitants	322	24 355
Settlements	Built-Up Area	km	1 280
Transportation	Railway	km	46
	Primary Road	km	90
	Secondary Road	km	79
	Station	No.	7
	Bridge	No.	1

Map Information
Due to extensive rainfall of the last few days the areas around Evros river are affected from severe floods which are damaging agriculture land, road and railway network. Major flood problems have been reported in the south part of the river. Many embankments across Evros river were broken, causing further problems in populated places. Some villages were partially evacuated.

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).
Landsat-8 © U.S. Geological Survey (acquired on 04/11/2014, GSD 30 m, approx. 2% cloud coverage).
COSMO-SkyMed © ASI 2015 (acquired on 07/02/2015 16:16 UTC, GSD 22m) provided by e-GEOS S.p.A., all rights reserved.
Base vector layers based on OpenStreetMap © OpenStreetMap contributors, Wikimedia project, GeoNames, GADM (approx. 1:10000, extracted on 12/12/2014), refined by SIRS. Source information is included in vector data.
Elevation data: SRTM (90 m posting). Height in meters above mean sea level.
Population data: Landsat 2010 © UTA BATELLE, 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 released 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 Evros (GREECE). The basic topographic features are derived from public datasets, refined by means of visual interpretation of pre-event Landsat images. The thematic layer, assessing the delineation of the event, has been derived from post-event COSMO-SkyMed image.
All satellite images have been radiometrically enhanced, orthorectified with RPC approach (using SRTM elevation data) and coregistered to pre-event imagery.
The estimated geometric accuracy of this product is 60 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 within the Greek territory.
Map produced on 08/02/2015 by SIRS under contract 257219 with the European Commission. All products are © of the European Commission.
Name of the release inspector (quality control): e-GEOS (ODO).
E-mail: rush@ems-gmes.eu
Map products available at <http://emergency.copernicus.eu/mapping/ist-of-components/EMSR119>

Civil Protection

Response

Delineation Map - Detail

Planning

COSMO-SkyMed © ASI 2015

01-02-2015