

Evros - GREECE Flood - 01/02/2015 Delineation Map - 04 Detail

Production date: 08/02/2015

Cartographic Information

1:75000

Full color ISO A1, low resolution (100 dpi)

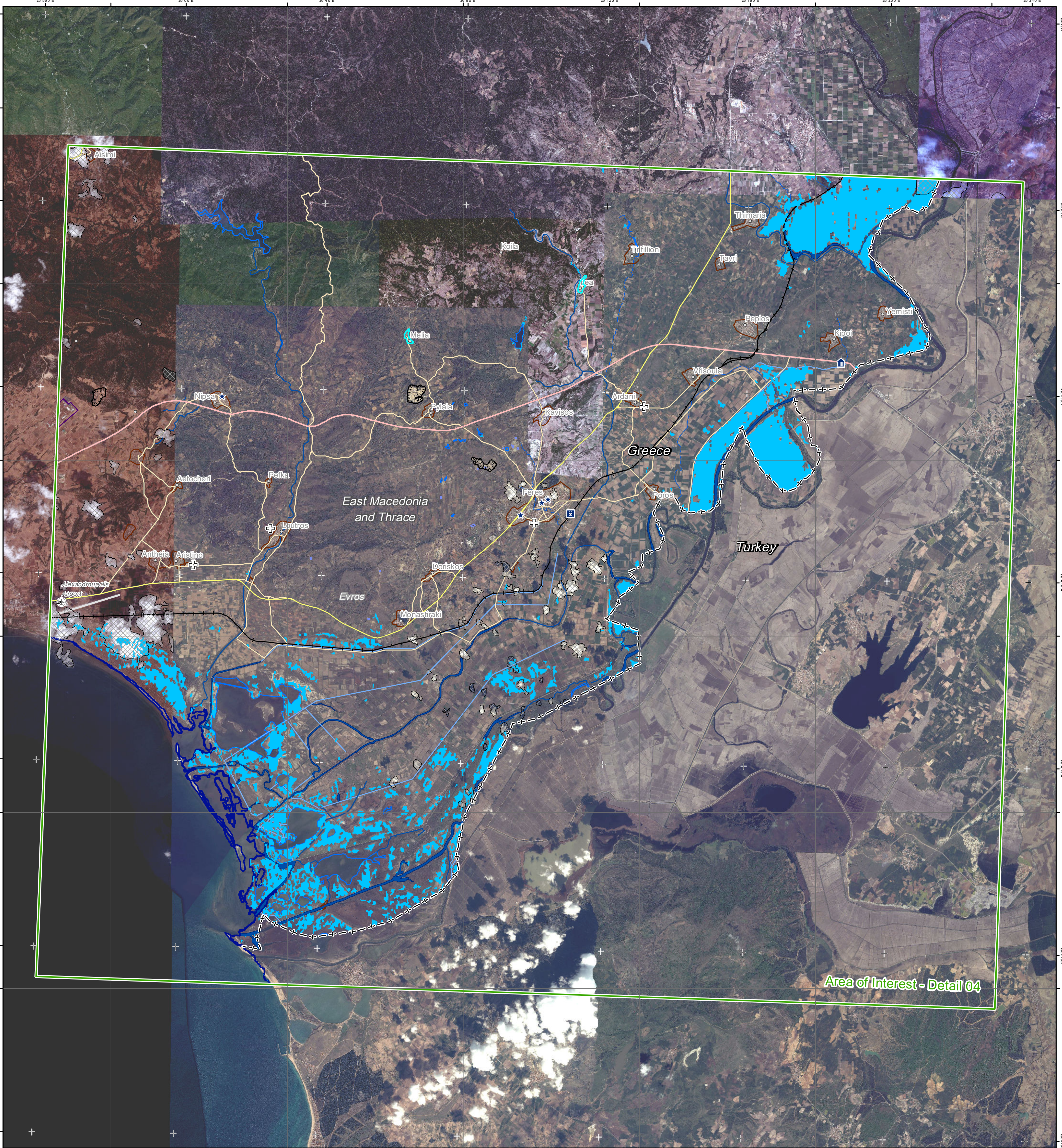
Map Coordinate System: WGS 1984 UTM Zone 35N
Graticule: WGS 84 geographical coordinates

Legend

- Crisis Information**
 - Flooded Area (07/02/2015 16:16 UTC)
- General Information**
 - Area of Interest
 - Clouds
- Administrative boundaries**
 - International Boundary
- Settlements**
 - Populated Place
 - Residential
 - Industrial
- Hydrology**
 - Coastline
 - Dam
 - River
 - Stream
 - Canal
 - Lake
 - Reservoir
 - River
- Point of Interest**
 - Institutional
 - Religious
 - Transportation
 - Cemetery
 - Quarry
 - Aerodrome
 - Railway
 - Runway
 - Motorway
 - Primary Road
 - Secondary Road
 - Aerodrome

Consequences within the detail AOI on 07/02/2015 on Greek Territory

	Affected	Total in AOI
Flooded area	ha	4936
Estimated population	Inhabitants	87
Settlements	Industrial	0
	Residential	0
	ha	847
Transportation	Motorway	0
	Primary roads	0
	Secondary roads	0.4
	Railways	0.7
	Stations	0
Utilities	Quarry	0
	ha	66



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), ESRI World Imagery © Esri, DigitalGlobe (acquired on 09/03/2008, 07/09/2010 and 07/09/2012, GSD 2.5 m, approx. 2% cloud coverage), COSMO-SkyMed © ASI 2015 (acquired on 07/02/2015 16:16 UTC, GSD 22 m) provided under ESA GSC-DA DWH License. Base vector layers based on OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames, GADM (approx. 1:10000, extracted on 12/12/2014), refined by ITHACA. Source information is included in vector data. Population data: Landscan 2010 © UT BATTELLE, 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 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 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 ESRI World Imagery. Thematic layers, assessing the delineation of the event have 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 image. The estimated geometric accuracy of this product is 10 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 ITHACA 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/list-of-components/EMSR119>