

Southern Danube - HUNGARY

Flood - 04/06/2013

Delineation Map - Overview

Production date: 13/06/2013

Cartographic Information

1:325000

Full color ISO A1, medium resolution (200 dpi)

0 5 10 20
km

Map Coordinate System: WGS 1984 UTM Zone 34N
Graticule: WGS 84 geographical coordinates



Legend

Crisis Information

Flood (12/06/2013)

General Information

Area of Interest

Administrative boundaries

International Boundary

Region

Settlement

Populated Place

Built up Area

Transportation

Aerodrome

Harbour

Railway

Runway

Motorway

Primary Road

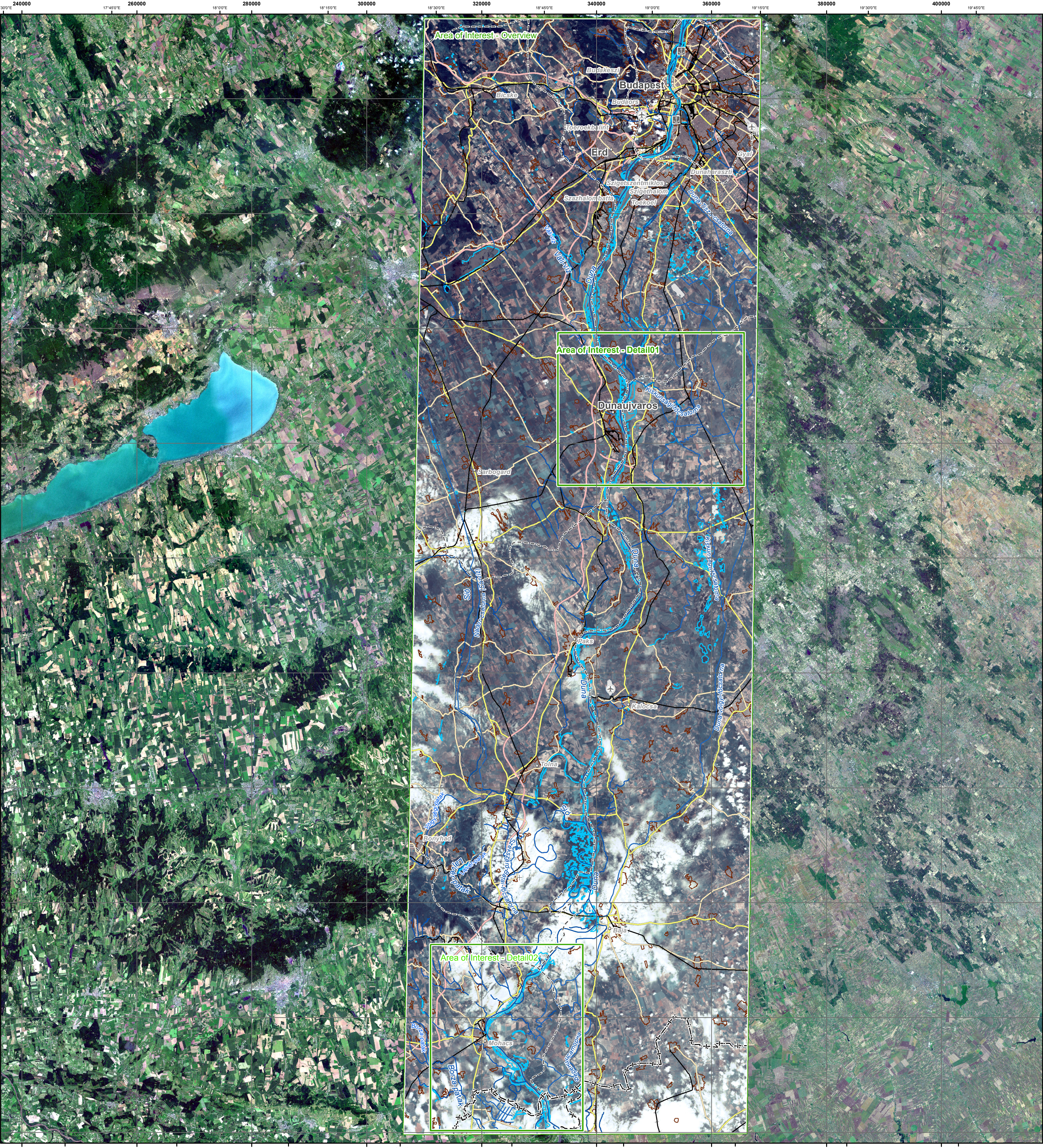
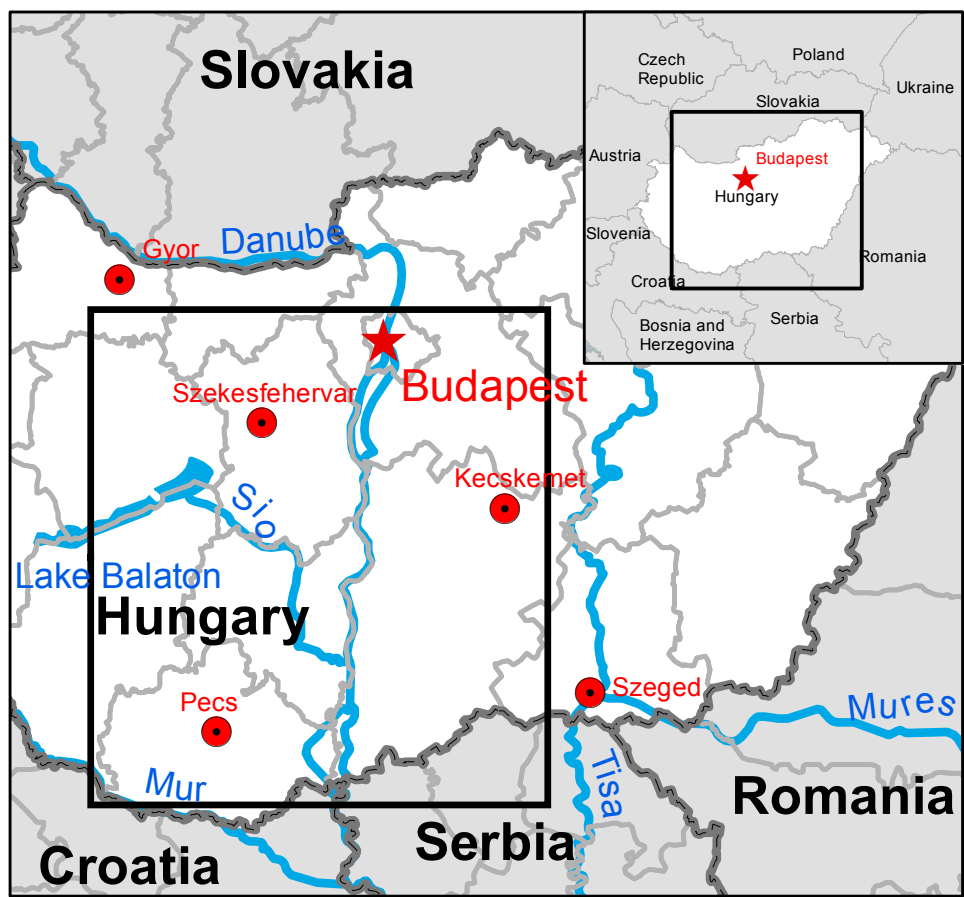
Secondary Road

Hydrology

River

Stream

Canal



Map Information

Surging rivers in Hungary, Czech Republic, Germany and Austria caused widespread flooding in the region. Heavy rains had swelled the Elbe, Danube and Vltava rivers over the weekend, along with smaller rivers and tributaries. Hungary declared states of emergency as the waters of the Danube River rose to record levels. There are flood protection alert and preparedness along 759.8 km in the country. On the upper section of Danube the highest ever measured water levels are expected. Peak on Danube River is expected for June 10 in Budapest. Water management experts are forecasting 885 +/- 20 cm water level in Budapest, the highest ever measured water level. Peak in Nagybagas (near City Győr, HUN/SK border) is expected for June 8, with 900 +/- 10 cm water level (highest ever measured). The main users of the map are Civil Protection authorities involved in in-field operations. The potential additional users of the map are Civil Protection authorities involved in operations. The scope of the map is to provide support to planning and rescue operations.

Data Sources

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). DEIMOS © DEIMOS Imaging (acquired on 12/06/2013, GSD 22m, 25% cloud coverage) inside overview Area of Interest. Landsat imagery (acquired in 2002-2010, GSD 15m, 1% cloud coverage, source USGS/NASA) outside overview Area of Interest. Base vector layers based on Openstreetmap, Wikimapia, Geonames, all the source used for vectors (approx. 1:10,000, extracted on 06/06/2013), refined bySIRS.

Dissemination/Publication

No restrictions on the publication of the mapping apply. 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, 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 basic topographic features such as transportation, hydrology and settlements in the area of Mohacs (Hungary). These basic topographic features are derived from public datasets, refined by means of visual interpretation of pre-event Landsat orthoimagery. Thematic layer assessing the delineation of the flood event has been derived from DEIMOS post-event imagery (22 m resolution, acquired on 12/06/2013). All satellite images have been radiometrically enhanced and georeferenced. The estimated geometric accuracy of this product is 50 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 satellite optical imagery. Only the area enclosed by the Area of Interest has been analyzed. Map produced on 13/06/2013 by e-GEOS 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

