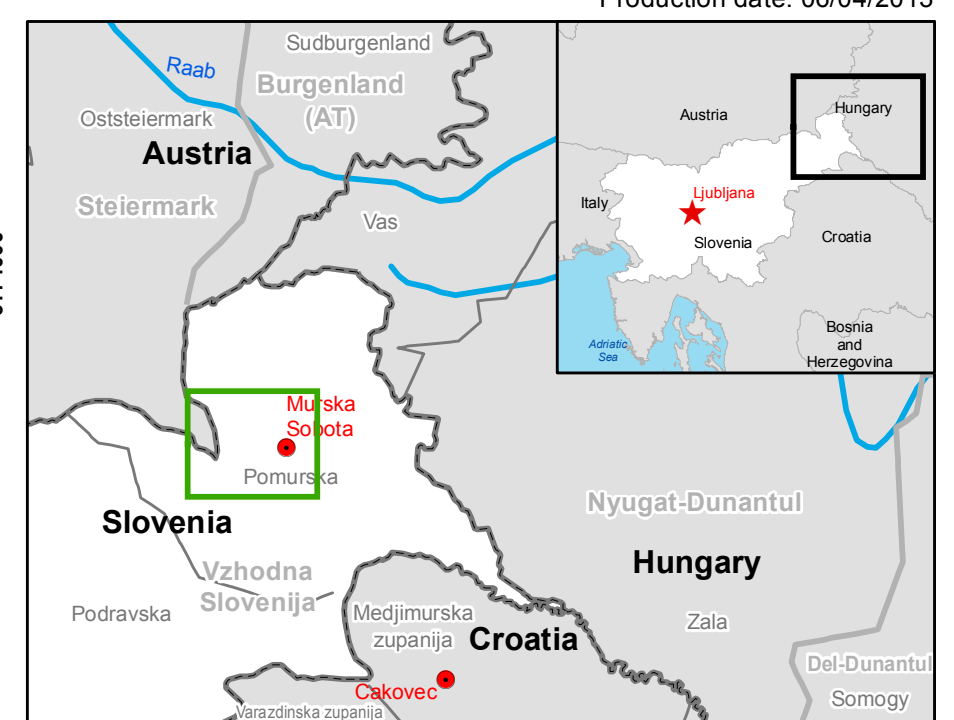


Murska Sobota - SLOVENIA

Flood - 31/03/2013

Delineation Map - Detail 01

Production date: 06/04/2013



Cartographic Information

1:25000

Full color ISO A1, medium resolution (200 dpi)

0 0.5 1 2 km

Map Coordinate System: WGS 1984 UTM Zone 33N

Graticule: WGS 84 geographical coordinates

Legend

Crisis Information

Flooded Areas (05/04/2013)

General Information

Area of Interest

Administrative boundaries

Region

Province

Municipality

Settlements

Industrial

Other or Unknown

Residential

Sports Ground

Hydrology

Stream

Canal

Lake

Reservoir

River

Point of Interest

Educational

Medical

Recreational

Religious

Transportation

Railway

Motorway

Secondary Road

Local Road

	Consequences within the Area of Interest
	24556 Inhabitants
	1529 ha
	854 ha

Map Information

Severe floods have stricken north-eastern part of Slovenia and have caused damage in several river basins and agricultural areas. As a result of heavy rains the Lendava river and its tributaries have flooded vast areas.

This is a delineation map covering the broader region of Murska Sobota.

The core users of the map are civil protection authorities involved in in-field operations.

The scope of the map production is planning and support to logistics.

Data Sources

Radarsat-2 (acquired on 05/04/2013, GSD 5.0 m) processed by e-GEOS, provided under ESA GSC-DA DWH Licence

Background aerial digital ortho-photos (acquired on 2009 - 2012, GSD 2.5 m) © 2013 ARSO Geoportal of Slovenia (gis.arso.gov.si) - Inside Slovenian territory

Background satellite image Landsat (acquired on 2000-2010, GSD 15.0 m) © 2013 USGS/NASA - Outside Slovenian territory

Base vector layers based on Openstreetmap, Wikimapia, Geonames, refined by e-GEOS.

Inset maps based on: Administrative boundaries (JRC 2013, GISCO 2010, ©EuroGeographics), Hydrology (Natural Earth, 2013), Settlements (Geonames, 2013)

Population estimates based on Landscan 2010 © UT BATTELLE, LLC.

All data sources are complete and with no gaps.

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 broader region of Murska Sobota (Slovenia). These basic topographic features are derived from public datasets, refined by means of visual interpretation of aerial digital ortho-photos.

Thematic layer assessing the delineation of the flood event have been derived from Radarsat-2 post-event imagery (5 m resolution, acquired on 05/04/2013 at 05:08 UTC).

All imagery has been radiometrically enhanced and georeferenced.

The estimated geometric accuracy of these products is 2 m CE90 or better.

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.

Map produced on 05/04/2013 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

Flood

Civil Protection

Response

Delineation Map - Detail

Planning

Radarsat-2

31-03-2013

Copernicus
The European Earth Observation Programme