

GLIDE number: N/A Activation ID: EMSR-022
Product N.: 01Gloucester, v2

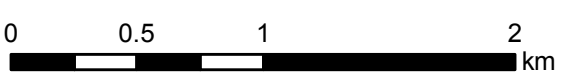
Gloucester - UK Flood - 26/11/2012 Delineation Map - Detail Monit01

Production date: 05/12/2012



Cartographic Information

1:30000 Full color ISO A1, medium resolution (200 dpi)



Map Coordinate System: WGS 1984 UTM Zone 30N
Graticule: WGS 84 geographical coordinates

Legend

- Crisis Information**
(28/11/2012)
 Flooded areas
- General Information**
 Area of Interest
- Building**
 Building
- Transportation**
 National Motorway
 Primary Road
 Secondary Road
 Runway
 Railway
 Aerodrome
- Point of Interest**
 Educational
 Industrial
 Institutional
 Medical
- Hydrology**
 River
 Lake
- Industrial Facility**
 Quarry

| Potentially Affected Population | Consequences within the AOI | | | |
|---------------------------------|-----------------------------|---|-------------|---|
| | 16000 inhabitants | | | |
| Affected Assets | 2 Points of Interest | | | |
| | Religious | 0 | Educational | 1 |
| | Transportation | 1 | Other | 0 |

Map Information

Since 26 November 2012, areas in England have been affected by extreme rainfall, with significant flooding impacts continuing such as flooding of properties and disruption to travel. River levels are set to peak, putting further properties at risk, and the river Severn deemed to be of particular concern.

Gloucestershire received almost a whole month's rain in two days. Flooding in Gloucestershire was predominately from smaller watercourses which reacted quickly to the local runoff, with flooding from the River Sever.

This caused extensive flooding across the lower Severn catchment and, in many places, river levels were the highest ever recorded. River Severn flood levels around Gloucester city were higher than the previously recorded during exceptional flows in the River Tems and River Avon and heavy rainfall across Worcestershire and Gloucestershire.

This is a delineation map for the area of Gloucester showing the situation after the event. The core user of the map is the Civil Contingency Secretariat Cabinet Office involved in in-field operations.

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

Data Sources

Spots © CNES 2012 (acquired on 06/03/2012 GSD 10 m, 2% cloud coverage) provided under ESA GSC-DA DWH License.
Cosmo-SkyMed (acquired on 28/11/2012, processed by e-GEOS) provided under ESA GSC-DA DWH License.
Base vector layers based on OpenStreetmap, Geonames, GADM, OS OpenData Ordnance Survey refined by e-GEOS.

Dissemination/Publication

No restrictions on the publication of the mapping apply.
Delivery formats are GeoTIFF, GeoPDF, GeoJPEG and vectors (shapelite 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.

Map Production

The map shows basic topographic features such as transportation, hydrology, general information and built up area in the area of River Sever. These basic topographic features derive from public datasets, refined by mean of visual interpretation of pre-event image.

Thematic layers, assessing the delineation of the flood event, have been derived from a Cosmo-SkyMed post-event imagery (3 m resolution, acquired on 28/11/2012).

All satellite images have been radiometrically enhanced and georeferenced.

The estimated geometric accuracy of this product is 30 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 the analysis technique has been validated by several in field validation campaigns.

Please be aware that the thematic accuracy might be lower in urban and forested areas due to known limitations of the analysis technique.

Map produced on 04/12/2012 by e-GEOS

Name of the release inspector (quality control): GAF (ODO).

Flood

Civil Protection
 Response
 Delineation Map - Detail
 Planning and support to logistics
 COSMO-SkyMed (c) ASI (2012)
 26-11-2012