

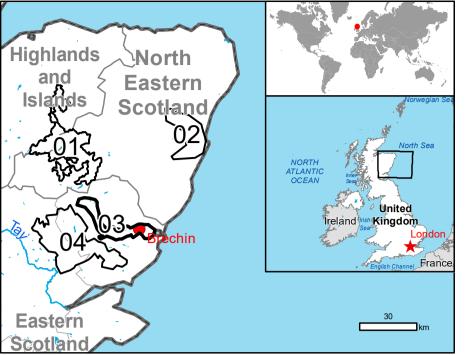
Int. Charter Act. ID: 790

Activation ID: EMSR640

Brechin - UNITED KINGDOM

Flood - Situation as of 20/11/2022

Delineation MONIT01 - Overview map 01



Cartographic Information

Full color A1, 200 dpi resolution

Grid: WGS 1984 UTM Zone 30N map coordinate system Tick marks: WGS 84 geographical coordinate system

Legend ction Land Use - Land Cover

		Affected	Total in AO
Flooded area	ha		227.5
Previous Flooded area	ha		1,074.7
Estimated population		39	10,139
Built-up	ha	0.3	211.8
Transportation	km	0.4	356.1
Facilities	ha	5.8	844.9
Land use	ha	227.5	24,749.7

Map Information

Significant flooding has been observed in several regions of the east of Scotland, covering a large geographic area with potential economic and environmental damage and danger to life.

The present map shows the flood delineation in the area of Brechin (United Kingdom). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The scale of analysis is 1:25000. The estimated geometric accuracy (RMSE) is 20 m or better, from native positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 2500 sq m.

Relevant date records (UTC)

Activation	18/11/2022 21:46	Map production	20/11/2022

18/11/2022 17:59 Situation as of 20/11/2022 06:30

Data sources

Pre-event image: Sentinel-2A (2022) (acquired on 10/08/2022 at 11:33 UTC, GSD 10 m, approx. 9,6% cloud coverage in AoI, 0° off-nadir angle) provided under COPERNICUS by the European Union and ESA.

Post-event image: Sentinel-1A (2022) (acquired on 20/11/2022 at 06:30 UTC, GSD 10 m), provided under COPERNICUS by the European Union and ESA.

Sentinel-1A (2022) (acquired on 18/11/2022 at 17:59 UTC, GSD 10 m), provided under COPERNICUS by the European Union and ESA.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2022), Wikimapia.org, GeoNames 2015, Corine Land Cover 2018, EuroBoundaryMap 2017 © EuroGeographics, refined by the producer.
Inset maps: JRC 2013, GISCO 2010 © EuroGeographics, Natural Earth 2012, CCM River DB © EUJRC2007, GeoNames 2015.

Digital Elevation Model: SRTM (90 m) or (30 m) (NASA/USGS) provided under COPERNICUS by the European Union and ESA, all rights reserved.

Disclaimer

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producer and by the European Union.

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

Delivery formats are Layered Geospatial PDF, GeoJPEG and vector (ESRI shapefiles, Google Earth KML, GeoJSON).

Map produced by e-GEOS released by e-GEOS (ODO).

For the latest version of this map and related products visit https://emergency.copernicus.eu/EMSR640

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