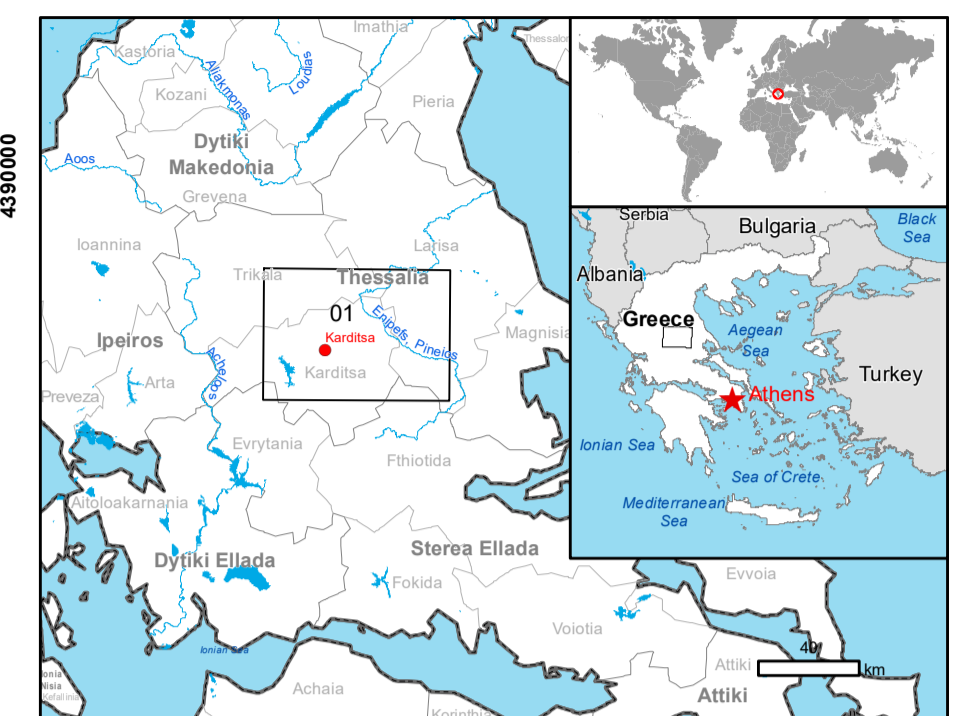


### Karditsa - GREECE

#### Flood - Situation as of 20/09/2020

#### Delineation MONIT01 - Overview map 01



#### Cartographic Information

1:120000 Full color A1, 200 dpi resolution



Grid: WGS 1984 UTM Zone 34N map coordinate system  
 Tick marks: WGS 84 geographical coordinate system

#### Legend

Crises Information	Place names	Facilities	Physiography & Land Use - Land Cover
<ul style="list-style-type: none"> <li>Flood line (20/09/2020 16:00 UTC)</li> <li>Previous Flooded Area (20/09/2020 09:30 UTC)</li> <li>Flood line (20/09/2020 09:30 UTC)</li> <li>Area of interest</li> <li>Not Analysed</li> <li>Administrative boundaries</li> </ul>	<ul style="list-style-type: none"> <li>Place</li> <li>Build-Up Area</li> <li>Bulk-Up Area</li> </ul>	<ul style="list-style-type: none"> <li>Dem</li> <li>Construction for mining</li> <li>Extraction</li> <li>Transportation</li> <li>Hydrography</li> <li>River</li> <li>Stream</li> <li>Lake</li> <li>Reservoir</li> <li>Primary Road</li> <li>Secondary Road</li> <li>Long-distance railway</li> <li>Airfield runway</li> </ul>	<ul style="list-style-type: none"> <li>Features available in the vector package</li> </ul>

Consequences within the AOI		Unit of measurement	Affected	Total in AOI
Flood line		ha	4039.7	2439.6
Previous Flooded Area		ha	5962.7	5962.7
Estimated population	Number of inhabitants	ha	34442	
Settlements	Residential Buildings	ha	629.9	13402.9
	Industrial buildings	ha	192.9	1924.9
	Museums and libraries	ha	2.4	176.7
	Sports	ha	0.3	19.6
Transportation	Airfield runways	km	0.3	8.2
	Highways	km	28.8	476.5
	Primary Road	km	30.8	517.9
	Secondary Road	km	40.8	225.2
Facilities	Construction for mining or extraction	ha	4.4	306.6
	Open	ha	6.3	21.4
Land use	Arable land	ha	27093.9	240202.1
	Perennial crops	ha	401.9	1764.4
	Pastures	ha	935.1	6415.9
	Heterogeneous agricultural areas	ha	504.9	17003.9
	Forests	ha	34.2	26817.5
	Shrub and/or herbaceous vegetation association	ha	1104.4	44014.5
	Open spaces with little or no vegetation	ha	0.0	1447.5
	Wetlands	ha	5.9	484.4
Other	ha	1068.5	30622.2	

#### Map Information

Due to extensive rainfall caused by the Mediterranean hurricane (Medicane) 'Ianos', many areas of Thessaly region have been flooded since 18/09/2020 18:30 UTC. Extensive damage is reported in agricultural land, urban areas of Farsala, Mouzaki and Karditsa cities and also on the road network of the wider area. At least two people died and two are declared as missing. The Fire Service has received 630 calls for help and has proceeded to 450 rescue operations and 120 flood water pumping operations in urban areas.

The present map shows the flood delineation product in the area of Karditsa (Greece). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The estimated geometric accuracy (RMSE) is 25 m or better, from native positional accuracy of the background satellite image.

#### Relevant date records (UTC)

Event	18/09/2020 18:30	Situation as of	20/09/2020 16:09
Activation	19/09/2020 09:46	Map production	21/09/2020

#### Data sources

Pre-event image: Sentinel-2A (2020) (acquired on 05/09/2020 at 09:20 UTC, GSD 10.0 m, approx. 0% cloud coverage in AOI) provided under COPERNICUS by the European Union and ESA.  
 Post-event image: COSMO-SkyMed® ASI (2020), distributed by e-GEOS S.p.A. (acquired on 20/09/2020 at 16:09 UTC, GSD 30.0 m), provided under COPERNICUS by the European Union and ESA, all rights reserved. Sentinel-2A (2020) (acquired on 20/09/2020 at 09:20 UTC, GSD 10.0 m, approx. 21% cloud coverage in AOI) provided under COPERNICUS by the European Union and ESA.

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

Population data: GHS Population Grid © European Commission, 2019  
[https://ghsl.jrc.ec.europa.eu/ghs\\_pop2019.php](https://ghsl.jrc.ec.europa.eu/ghs_pop2019.php)  
 Digital Elevation Model: EU-DEM (25 m)

#### Disclaimer

Products elaborated in this Copernicus EMS Rapid Mapping activity are realized to the best of our ability, within a very short time frame, optimising the available data and information. All geographic information has limitations due to scale, resolution, date and interpretation of the original sources. No liability concerning the contents or the use thereof is assumed by the producer and by the European Union.  
 Please be aware that the thematic accuracy of the flooded area delineation (20/09/2020 16:09 UTC) 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 KMZ, GeoJSON).

Map produced by ITHACA released by e-GEOS (ODO).  
 For the latest version of this map and related products visit <https://emergency.copernicus.eu/EMSR465>

For more information visit [jrc-ems-rapidmapping@ec.europa.eu](mailto:jrc-ems-rapidmapping@ec.europa.eu)  
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