

Alexandroupoli - GREECE

Flood - Situation as of 03/02/2021

Delineation - Overview map 01

Cartographic Information

1:170000

Full color A1, 200 dpi resolution

0 3.5 7 14 km

Grid: WGS 1984 UTM Zone 35N map coordinate system
Tick marks: WGS 84 geographical coordinate system



Crisis Information	Built-Up Area	Transportation
<div>Flooded Area (03/02/2021 16:08 UTC)</div>	<div>Built-Up Area</div>	<div>Highway</div>
<div>General Information</div>	<div>Hydrography</div>	<div>Primary Road</div>
<div>Area of Interest</div>	<div>River</div>	<div>Long-distance railway</div>
<div>Detail map</div>	<div>Stream</div>	<div>Airfield runway</div>
<div>Administrative boundaries</div>	<div>Lake</div>	<div>Helipad</div>
<div>International Boundary</div>	<div>Land Subject to Inundation</div>	<div>Physiography & Land Use - Land Cover</div>
<div>Municipality</div>	<div>Reservoir</div>	<div>Features available in the vector package</div>
<div>Placenames</div>	<div>River</div>	
<div>Placename</div>		

Legend

Consequences within the AOI	Unit of measurement	Affected	Total in AOI
Flooded area	ha	661	12 846.0
Estimated population	Number of inhabitants	661	NA
Built-up			
Residential buildings	ha	1.2	NA
Office buildings	ha	0.0	NA
Wholesale and retail trade buildings	ha	0.0	NA
Industrial buildings	ha	0.1	NA
School, university and research buildings	ha	0.0	NA
Hospital or institutional care buildings	ha	0.0	NA
Military	ha	0.0	NA
Cemetery	ha	0.0	NA
Transportation			
Airfield runways	ha	0.0	NA
Helipad	ha	0.0	NA
Highways	km	0.2	NA
Primary Road	km	0.5	NA
Long-distance railways	km	0.6	NA
Land use			
Arable land	ha	9 286.3	NA
Permanent crops	ha	0.5	NA
Pastures	ha	23.3	NA
Heterogeneous agricultural areas	ha	350.1	NA
Forests	ha	4.7	NA
Shrub and/or herbaceous vegetation association	ha	43.5	NA
Open spaces with little or no vegetation	ha	23.9	NA
Inland wetlands	ha	584.3	NA
Other	ha	662.1	NA
Coastal wetlands	ha	1 656.8	NA



Map Information

Due to extensive rainfall in the Evros river basin, and also due to large amounts of water that were released from dams from the Bulgarian part of rivers Evros, Ardas and Erythropotamos, many areas of Evros Regional Unit have been flooded. Extensive damages are reported in agricultural land and road network. Many embankments across Evros river, broke, causing problems in rural and urban areas. Copernicus EMS Rapid Mapping products will be used mainly by the local Civil Protection Authorities for flood protection measures and damage assessment of houses and infrastructure and by the Greek Agricultural Insurance Organization for damage assessment of farming activities.

The present map shows the flood delineation in the area of Alexandroupoli (Greece). 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 20.0 m or better, from native positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 2500 sq m.

Data sources

Pre-event image: Sentinel-2A (2020) (acquired on 26/11/2020 at 09:13 UTC, GSD 10.0 m, approx. 0% cloud coverage in AoI, 0° off-nadir angle) provided under COPERNICUS by the European Union and ESA.

Post-event image: Sentinel-1A (2021) (acquired on 03/02/2021 at 16:08 UTC, GSD 10.0 m) provided under COPERNICUS by the European Union and ESA.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2021), Wikimapia.org, GeoNames 2015, Corine Land Cover (CLC) 2018, Global Administrative Areas (GADM), 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, 2015 https://data.europa.eu/89h/jrc-ghsl-ghs_pop_gpw4_globe_r2015a.

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 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 SERTIT released by e-GEOS (ODO).

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Relevant date records (UTC)

Event	01/02/2021 08:30	Situation as of	03/02/2021 16:08
Activation	02/02/2021 15:49	Map production	03/02/2021