

EMSR692 - AOI07
Flood in Greece
KALAMAKI

Situation as of 22/09/2023 09:46 UTC
 Delineation MONIT01 - Overview map 01



Flood trace 10,579.0 ha
Flooded area 14,976.2 ha
 Previous flooded area 12,291.9 ha

Potentially affected population ~ 6300

Potentially Affected Built-up and Transportations

Road 813.6 km	Built-Up 339.3 ha	Airport 8.7 km 176.2 ha
Facilities 20.3 km 84.5 ha	Railway 14.8 km	

Crisis Information

- Flooded Area
- Flood trace
- Previous Flooded Area (19/09/2023 9:33 UTC)
- Area of Interest

Administrative boundaries

- Municipality
- Placename

Placenames

- Residential
- Non residential
- School, university and research buildings
- Hospital or institutional care buildings
- Military

Built-Up Area

- Residential
- Non residential
- School, university and research buildings
- Hospital or institutional care buildings
- Military

Hydrography

- River
- Stream
- Waterfall
- Lake
- Land Subject to Inundation
- Reservoir
- River

General Information

- Area of Interest

Facilities

- Long-distance pipelines or lines
- Dam
- Mining or extraction site
- Power plant
- Sport and recreation constructions
- Water or Aquatic infrastructure
- Dam

Transportation

- Highway
- Main road
- Local road
- Track
- Railway
- Airfield runway
- Airfield

Event:
 Due to extreme rainfall in Thessaly Region, extended floods occurred in Magnesia Regional Unit, mostly around the city of Volos and coastal areas of Pelion mountain peninsula. Extreme rainfall is ongoing and according to the forecast of the National Meteorological Service the rainfall will continue until tomorrow afternoon. One person is missing, and one died, and many cars were drifted away due to the flooding. Local Fire Service received many calls for help to pump water from flooded buildings and rescue people trapped by the rising waters. Copernicus EMS Rapid Mapping is requested to provide initial rough estimation, flood extent and monitoring of the event for the emergency mapping.

Data sources and analysis: Pre-event image: Sentinel 2A/B (2023) (acquired on 31/08/2023 at 09:15 UTC, resolution 10.0 m).
 Post-event image: GeoEye © Maxar Technologies, Inc. (2023), (acquired on 22/09/2023 at 09:46 UTC, resolution 2.0 m). This image is used as background image.
 WorldView-2 © Maxar Technologies, Inc. (2023), (acquired on 19/09/2023 at 09:33 UTC, resolution 2.0 m).
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Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015, Corine Land Cover (CLC) 2018, EuroBoundaryMap 2017 © EuroGeographics.

Population data: GHS Population Grid © European Commission, 2023
https://ghsl.jrc.ec.europa.eu/ghs_pop2023.php
 Digital Elevation Model-SRTM (30 m) (NASA/USGS).

The thematic layer has been derived from post-event satellite image by means of visual interpretation.

Map produced by Planetek Hellas released by e-GEOS on the 23/09/2023.

Details on this activation and service conditions available through the QR code or at the link:
<https://rapidmapping.emergency.copernicus.eu/EMSR692>



Consequences within the AOI				
		Unit of measurement	Affected	Total in AOI
Previous flooded area		ha		12,291.9
Flood trace		ha		10,579.0
Flooded area		ha		14,976.2
Estimated population		Number of inhabitants	~ 6,300	~ 18,000
Built-up	Residential Buildings	ha	108.1	1,184.3
	Office buildings	ha	1.2	1.9
	Industrial buildings	ha	53.3	118.5
	Public entertainment buildings	ha	0.0	1
	School, university and research buildings	ha	0.0	0.5
	Buildings used as places of worship and for religious activities	ha	0.0	2
	Military	ha	176.2	392.1
	Cemetery	ha	0.4	1.1
	Unclassified	ha	0.0	15
Transportation	Airfield runways	ha	176.2	289.1
	Airfield runways	km	8.7	8.7
	Highways	km	18.0	28.6
	Primary Road	km	4.6	29.6
	Secondary Road	km	26.0	138.1
	Local Road	km	161.4	481.2
	Cart Track	km	603.3	1,112.1
Facilities	Long-distance railways	km	14.8	38.9
	Settling Basin	ha	4.2	4.3
	Dams	ha	2.8	24.6
	Constructions for mining or extraction	ha	24.5	63.0
	Power plant constructions	ha	48.3	77.8
	Sport and recreation constructions	ha	4.5	17.5
	Long-distance pipelines, communication and electricity lines	km	20.0	36.2
Land use	Dams	km	0.3	8.3
	Arable land	ha	22,842.7	34,465.6
	Other	ha	1,486.1	7,618.7
	Pastures	ha	546.5	729.8
	Heterogeneous agricultural areas	ha	374.2	2,481.2
	Inland wetlands	ha	130.1	359.6
	Permanent crops	ha	74.3	1,889.4
	Open spaces with little or no vegetation	ha	55.4	164.7
	Shrub and/or herbaceous vegetation association	ha	45.6	8,347.5
	Forests	ha	0.0	32.5

Disclaimer:

Full disclaimer and other helpful information available in the online manual:

<https://emergency.copernicus.eu/mapping/ems/online-manual-rapid-mapping-products>

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Data access:

All data displayed on the map(s), as well as the Physiography and Land Use - Land Cover layers, are available in the Crisis Information Package and the Base Layer Package (for reference data).

The table above is available in editable format in the Crisis Information Package.

All products and data are also available for download on the portal.

Access to
the portal



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