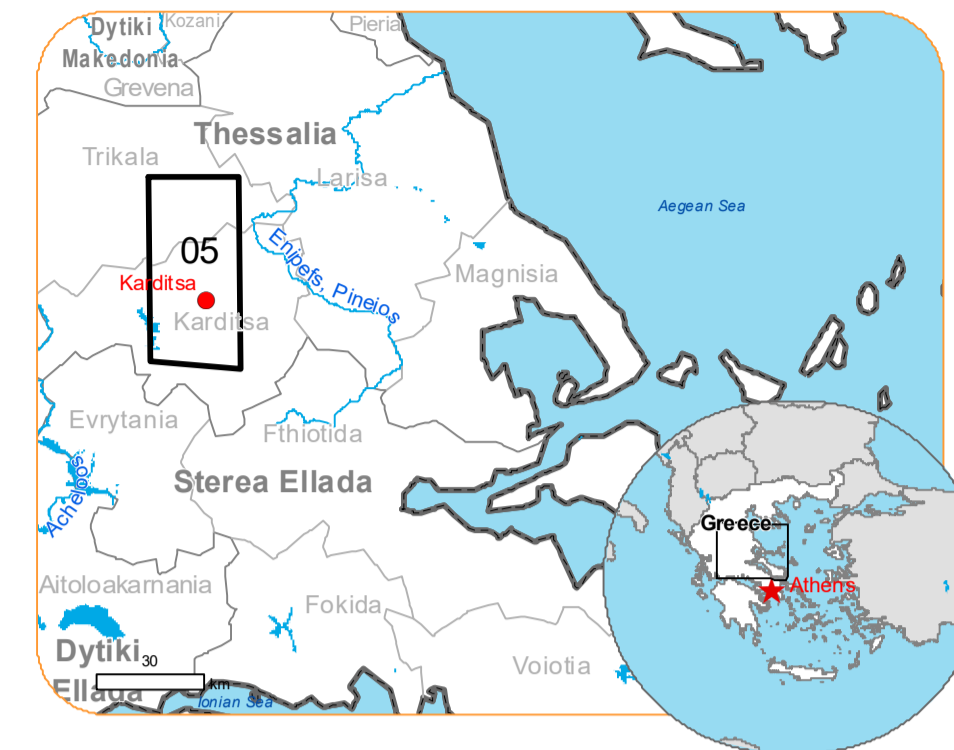




Situation as of 12/09/2023 08:54 UTC
 Delineation MONIT02 - Overview map 01



Flood trace 18,367.5 ha
Flooded area 18,990.1 ha
Previous flooded area 18,495.2 ha

Potentially affected population ~ 13000

Potentially Affected Built-up and Transportations

Railway 18.6 km **Road 623.3 km** **Built-Up 1,168.8 ha**

Crisis Information

- Flooded Area
- Previous Flooded Area (11/09/2023 09:42 UTC)
- ▨ Flood trace
- Area of Interest
- Image Footprint
- Administrative boundaries**
 - Municipality
- Placenames**
 - Placename
- Built-Up Area**
 - Residential
 - Non residential
- School, university and research buildings
- Hospital or institutional care buildings
- Military
- Land Subject to Inundation
- Reservoir
- 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
 - Railway
 - Airfield runway
 - Airfield
- Hydrography**
 - River
 - Stream
 - Lake
 - Reservoir
- Facilities**
 - Long-distance pipelines or lines
 - Dam
 - Mining or extraction site
 - Power plant

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: SPOT6/7 @ Airbus DS (2023), (acquired on 12/09/2023 at 08:54 UTC, resolution 1.5 m).
 GeoEye © Maxar Technologies, Inc. (2023), (acquired on 11/09/2023 at 09:42 UTC, resolution 2.0 m).

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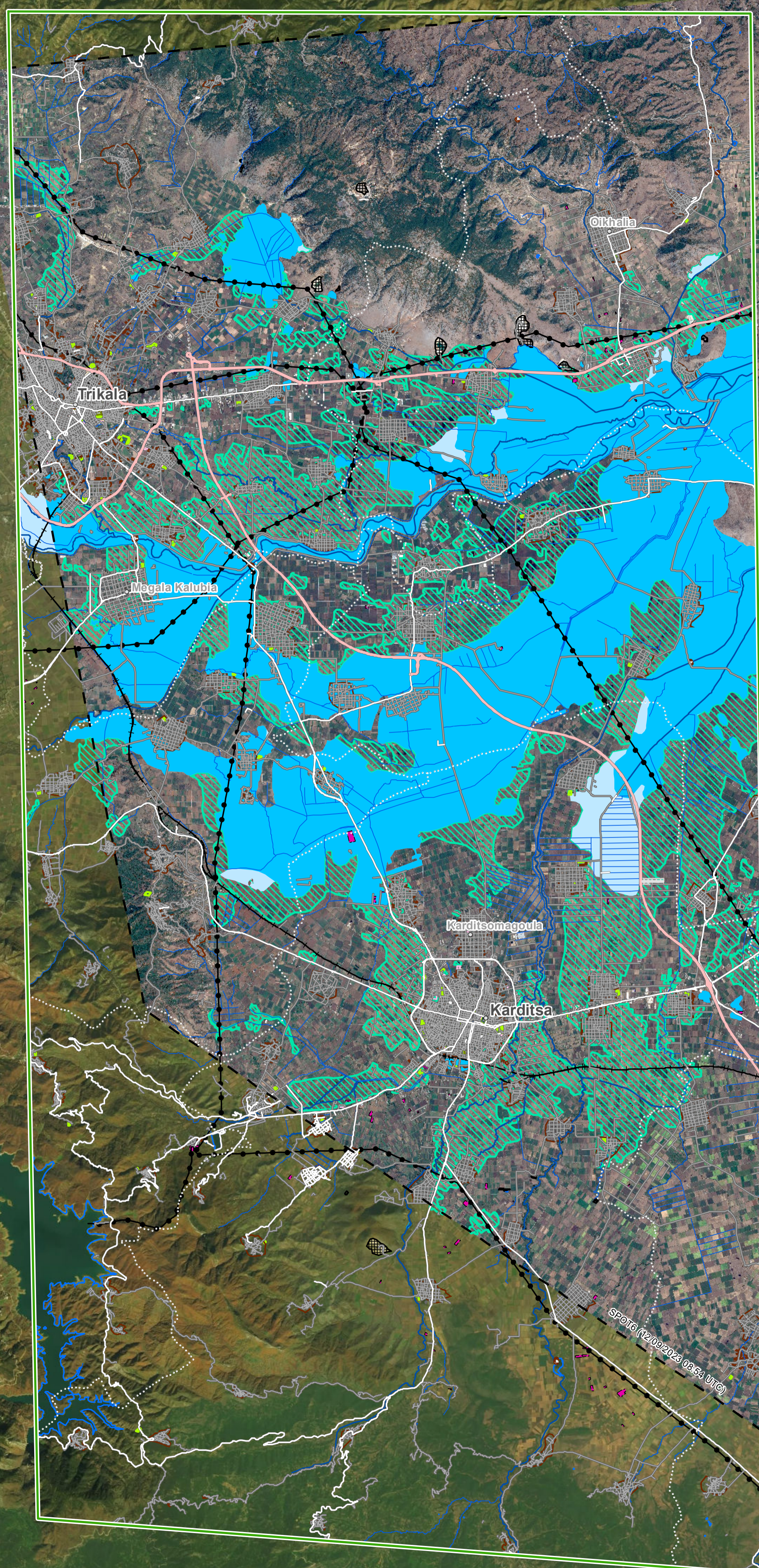
Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015, Corine Land Cover (CLC) 2018, EuroBoundaryMap 2017 © EuroGeographics, Inset maps: JRC 2013, GISCO 2010 © EuroGeographics, Natural Earth 2012, CCM River DB © EUJRC2007, GeoNames 2015.

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 e-GEOS released by SERTIT on the 13/09/2023.

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
Flood trace		ha		18,367.5
Flooded area		ha		18,990.1
Previous flooded area		ha		18,495.2
Estimated population		Number of inhabitants	~ 13,000	~ 140,000
Built-up	Residential Buildings	ha	1,066.3	6,220.8
	Office buildings	ha	0.7	17.2
	Wholesale and retail trade buildings	ha	0.0	14.1
	Industrial buildings	ha	89.3	271.3
	School, university and research buildings	ha	2.2	57.9
	Hospital or institutional care buildings	ha	0.0	7.0
	Military	ha	5.1	19.4
	Cemetery	ha	5.2	27.3
Transportation	Airfield runways	ha	14.1	14.8
	Airfield runways	km	0.7	0.7
	Highways	km	50.3	145.2
	Primary Road	km	27.9	112.9
	Secondary Road	km	45.1	280.0
	Local Road	km	500.0	2,223.9
	Long-distance railways	km	18.6	59.0
Facilities	Settling Basin	ha	0.0	2.0
	Dams	ha	0.0	0.0
	Constructions for mining or extraction	ha	5.1	120.7
	Power plant constructions	ha	22.4	68.2
	Sport and recreation constructions	ha	14.0	130.6
	Long-distance pipelines, communication and electricity lines	km	64.0	145.8
	Dams	km	0.3	0.5
Land use	Arable land	ha	32,358.6	73,395.5
	Other	ha	1,905.0	8,346.6
	Pastures	ha	1,878.5	3,137.9
	Heterogeneous agricultural areas	ha	890.0	9,914.2
	Inland wetlands	ha	130.0	172.9
	Forests	ha	95.9	11,190.0
	Shrub and/or herbaceous vegetation association	ha	83.8	24,751.7
	Permanent crops	ha	11.4	1,216.3
	Open spaces with little or no vegetation	ha	0.0	51.3

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 Land Use - Land Cover layer(s), 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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