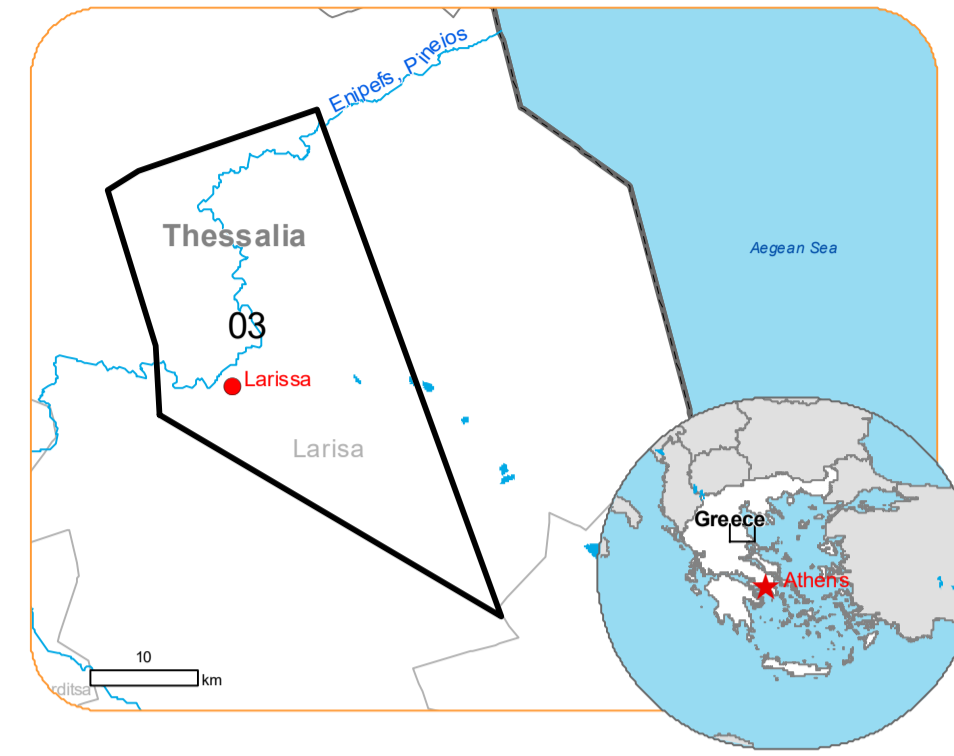




Situation as of 12/09/2023 08:53 UTC
 Delineation MONIT01 - Overview map 01



Flooded area 13,690.8 ha
Flood trace 2,334.6 ha
 Previous flooded area 15,278.6 ha

Potentially affected population ~ 15000

Potentially Affected Built-up, Transportations and Facilities

Built-Up 302.0 ha
Road 289.8 km
Railway 20.8 km
Airport 1.1 km / 4.1 ha
Facilities 44.4 km / 133.7 ha

Crisis Information	Hydrography	Transportation
Flooded Area	River	Highway
Previous Flooded Area (10/09/2023 09:05 UTC)	Stream	Main road
Flood trace	Waterfall	Local road
Area of Interest	Lake	Railway
Image Footprint	Reservoir	Airfield runway
Administrative boundaries	Long-distance pipelines or lines	Airfield
Municipality	Local pipelines or lines	Helipad
Placename	Dam	Mining or extraction site
Residential	Power plant	Sport and recreation constructions
Non residential	Dump Site	Water or Aquatic infrastructure
School, university and research buildings	Dam	
Hospital or institutional care buildings		
Military		

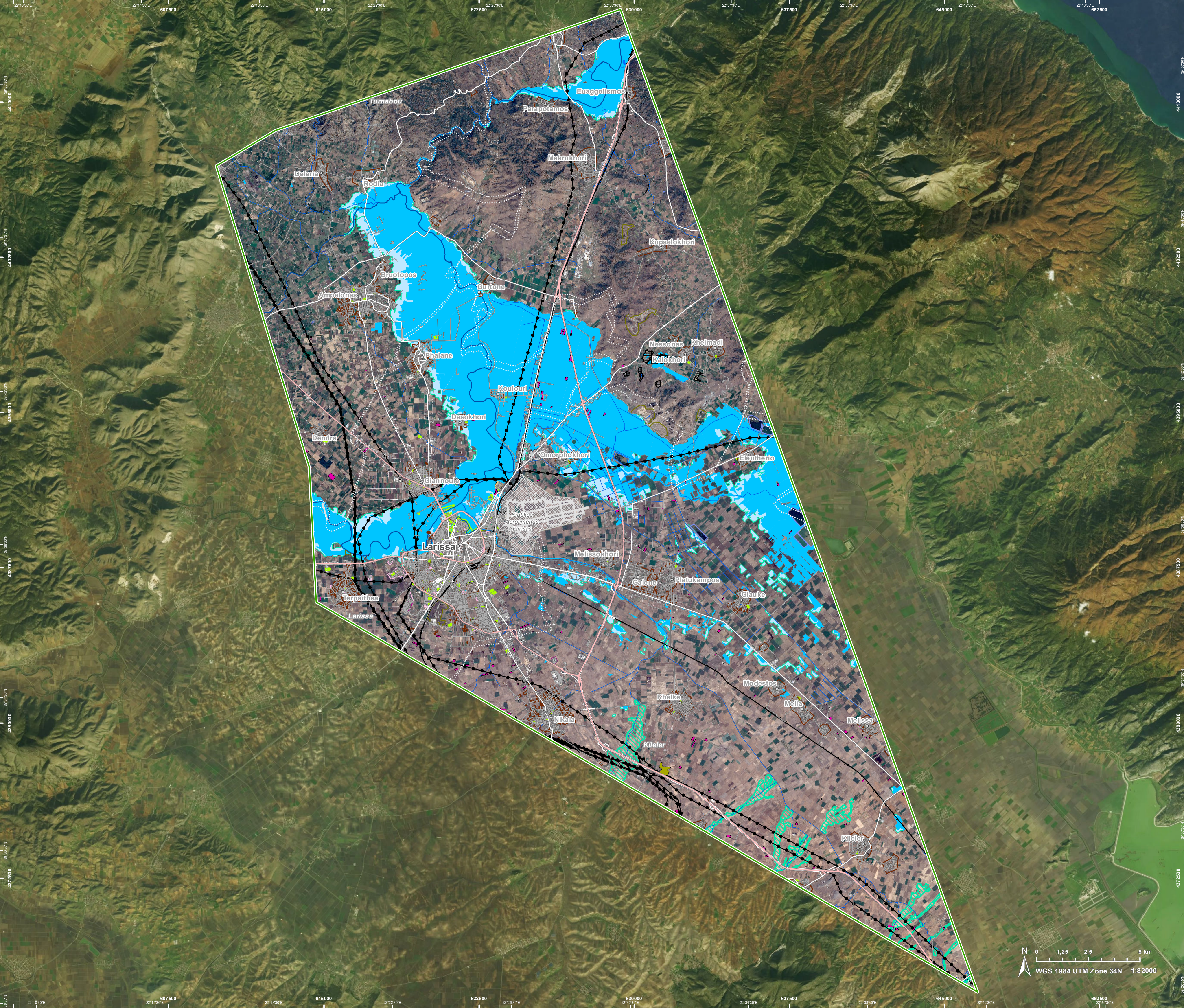
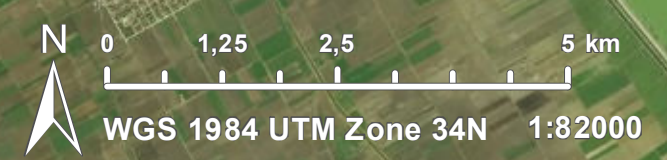
Event:
 Due to extreme rainfall in Thessaly Region, extended floods occurred in Magnesia Regional Unit, mostly around the city of Volos and coastal areas of Pelion mountain peninsula. Extreme rainfall is ongoing and according to the forecast of the National Meteorological Service the rainfall will continue 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 08:53 UTC, resolution 1.5 m). This image is used as background image.
 GeoEye @ Maxar Technologies, Inc. (2023), (acquired on 10/09/2023 at 09:05 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, GCM River DB © EUJRC2007, GeoNames 2015.
 Population data: GHS Population Grid © European Commission, 2023 https://ghsl.jrc.ec.europa.eu/ghs_pop2023.php

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

Map produced by CLS 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
Flooded area		ha		13 690,8
Flood trace		ha		2 334,6
Previous flooded area		ha		15 278,6
Estimated population	Number of inhabitants		~ 15 000	~ 180 000
Built-up	Residential Buildings	ha	184,7	3 720,9
	Office buildings	ha	23,0	111,3
	Wholesale and retail trade buildings	ha	0,0	3,5
	Industrial buildings	ha	85,9	561,3
	School, university and research buildings	ha	0,4	81,7
	Hospital or institutional care buildings	ha	0,0	23,0
	Military	ha	7,6	1 245,6
	Cemetery	ha	0,4	18,6
Transportation	Airfield runways	ha	4,1	873,1
	Helipad	ha	0,0	0,4
	Airfield runways	km	1,1	28,3
	Highways	km	38,9	178,7
	Primary Road	km	11,6	105,3
	Secondary Road	km	24,9	193,5
	Local Road	km	214,3	1 576,8
	Long-distance railways	km	20,8	138,1
Facilities	Settling Basin	ha	11,7	11,8
	Dams	ha	0,3	0,3
	Constructions for mining or extraction	ha	33,5	79,8
	Power plant constructions	ha	30,9	122,1
	Sport and recreation constructions	ha	57,2	168,7
	Other civil engineering works not elsewhere classified	ha	0,0	18,2
	Long-distance pipelines, communication and electricity lines	km	44,1	227,4
	Local pipelines and cables	km	0,0	0,1
	Dams	kms	0,3	0,3
Land use	Arable land	ha	13 260,2	49 942,4
	Other	ha	1 571,8	8 578,7
	Heterogeneous agricultural areas	ha	582,5	8 845,3
	Pastures	ha	261,8	790,4
	Inland wetlands	ha	132,6	191,4
	Open spaces with little or no vegetation	ha	121,9	397,3
	Shrub and/or herbaceous vegetation association	ha	78,4	9 809,6
	Permanent crops	ha	16,1	2 818,8

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



PROGRAMME OF THE EUROPEAN UNION

