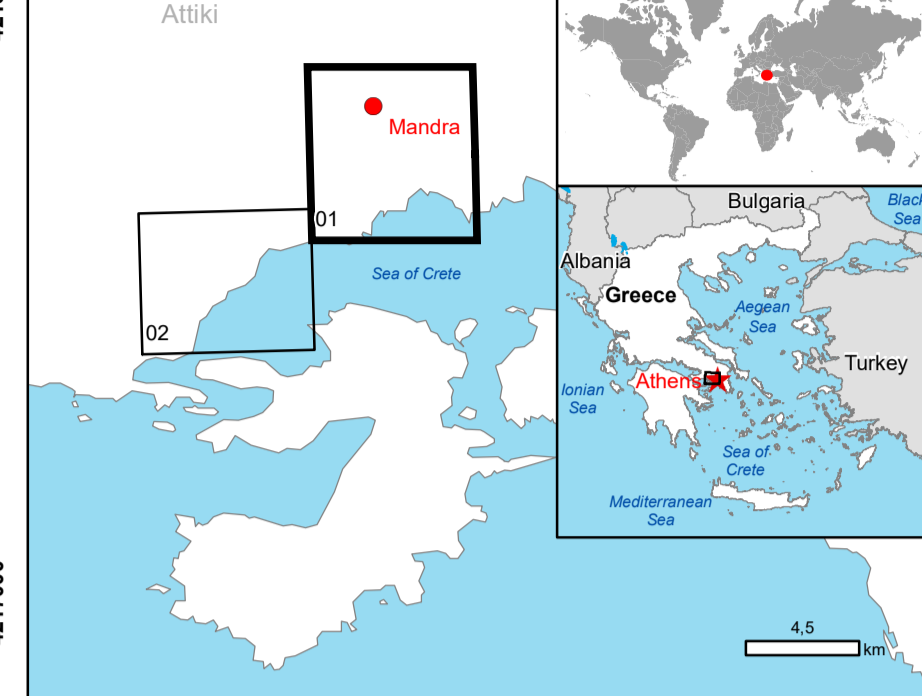


# Mandra - GREECE

## Flood - Situation as of 20/11/2017

### Grading Map



#### Cartographic Information

1:12500 Full color ISO A1, high resolution (300 dpi)

0 0.25 0.5 1 km

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

#### Legend

- Crisis Information**
  - Mudflow
- Built Up Grading**
  - Possibly damaged
- Transportation Grading**
  - Road, possibly damaged
- General Information**
  - Area of Interest
- Placenames**
  - Placename
- Administrative boundaries**
  - Municipality
- Hydrography**
  - Coastline
  - River
  - Stream
- Physiography**
  - Elevation Contour (m)
- Transportation**
  - Highway
  - Primary Road
  - Secondary Road
  - Local Road
  - Cart Track
  - Urban railway

Consequences within the AOI						
	Unit of measurement	Destroyed	Damaged	Possibly damaged	Total affected	Total in AOI
Mudflow	ha				208.23	
Estimated population	No of people				6701	41045
Settlements	Residential	No	0	0	1869	1869
	Hotel buildings	No	0	0	1	1
	Wholesale and retail trade buildings	No	0	0	15	15
	Communication buildings, stations, terminals	No	0	0	2	2
	Industrial buildings and warehouses	No	0	0	69	69
	Public entertainment buildings	No	0	0	1	1
	Buildings used as places of worship	No	0	0	2	2
Cemetery	No	0	0	2	2	
Transportation	Highway	km	0	0	0	26.90
	Primary Road	km	0	0	1.69	1.69
	Secondary Road	km	0	0	1.65	1.65
	Local Road	km	0	0	17.12	17.12
	Cart Track	km	0	0	1.15	1.15
	Urban Railway	km	0	0	0	31.60

#### Map Information

Flash floods in the areas of Mandra and Nea Peramos (Athens's western outskirts) that started on Wednesday 15-11-2017 early morning, turned roads into raging torrents of mud and debris, killing at least 20 people, inundating homes and disrupting the road network including several sections of the Athens-Korinthos highway. The General Secretary for Civil Protection has declared the area in State of Emergency.

The present map shows the damage grade assessment in the area of Mandra (Greece). The thematic layer has been derived from post-event satellite image by means of visual interpretation. The estimated geometric accuracy is 5 m CE90 or better, from naive positional accuracy of the background satellite image.

Relevant date records		
Event	15/11/2017	Situation as of 20/11/2017
Activation	19/11/2017	Map production 22/11/2017

#### Data Sources

Pre-event image: WorldView-2 © Digital Globe, Inc. (2017), (acquired on 18/08/2017 at 09:35 UTC, GSD 0.5 m, approx. 0% cloud coverage in AOI, 9.9° off-nadir angle), provided under COPERNICUS by the European Union, Esa and European Space Imaging, all rights reserved.

Post-event image: Pléiades-1B © CNES (2017), distributed by Airbus DS (acquired on 20/11/2017 at 09:41 UTC, GSD 0.5 m, approx. 0% cloud coverage in AOI, 30° off-nadir angle), provided under COPERNICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors, GeoNames 2015, refined by the producer; Euroboundaries.

Inset maps: JRC 2013, © EuroGeographics, Natural Earth 2012, CCM River DB © EUJRC2007, GeoNames 2013.

Population data: Landscan 2010 © UT BATTELLE, LLC  
Digital Elevation Model: EU-DEM (25 m)

#### Disclaimer

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