



Cartographic Information

1:18000 Full color A1, 200 dpi resolution

0 0.375 0.75 1.5 1 km

Grid: WGS 1984 UTM Zone 36N map coordinate system

Tick marks: WGS 84 geographical coordinate system

Legend

Crisis information	Built Up Grading	Transportation Grading
Explosion	Destroyed	Road, Destroyed
Temporary camp	Damaged	Road, Damaged
Road block / interruption	Possibly damaged	Road, Possibly damaged
		Highway, Possibly damaged
		Secondary Road, Possibly damaged
		Local Road, No visible damage
		Cart Track, No visible damage
		Long-distance railway, No visible damage

Facilities Grading	General Information
Damaged	Area of interest
Possibly damaged	No analysis
	Place names
	Hydrography
	Point of interest
	Hospital or institutional care building

Consequences within the AOI:				
	Unit of measurement	Destroyed	Damaged	Total affected (Destroyed & Damaged)
Temporary camp	No.	No.	No.	Total in AOI
Road block / interruption	No.	No.	No.	
Estimated population	Number of inhabitants	No. 6,270	No. 58,018	No. 64,288
Settlements		389,376		1,090,357
Residential buildings	No.	No. 4	No. 712	No. 716
Industrial buildings	No.	No. 7	No. 11	No. 13
Industrial buildings and warehouses	No.	No. 21	No. 31	No. 43
Public administration and research buildings	No.	No. 0	No. 0	No. 0
Hospital or institutional care buildings	No.	No. 0	No. 0	No. 0
Buildings used as places of worship and for religious activities	No.	No. 0	No. 1	No. 1
Buildings used as places of work, stations, terminals and associated buildings	No.	No. 0	No. 4	No. 5
Transportation				
Highways	km	0.0	0.0	0.0
Primary Road	km	0.0	0.0	0.4
Secondary Road	km	0.0	0.0	0.2
Local Road	km	0.0	0.0	3.0
Cart Track	km	0.0	0.0	2.3
Long-distance railways	km	0.0	0.0	0.0
Facilities	ha	0.0	0.0	0.7
Harbours	ha	0.0	3.4	3.4
Constructions for mining or extraction	ha	0.0	0.0	0.9

Map Information

A large explosion rocked the Lebanese capital of Beirut (Lebanon). The blast appears to have been centered on the city's port area and at least 100 people were killed and 4000 were injured by the explosion.

The present map shows the damage grade assessment in the area of Beirut (Lebanon). The thematic layer has been derived from post-event satellite image by means of visual interpretation. The estimated geometric accuracy (RMSE) is 2.5 m or better, from native positionality of the background satellite image.

The exposed population per damage class is just a rough estimation based on WorldPop 100 m DEM and damage areas. Possibly damaged buildings were mainly classified by information from media reports and debris on the ground. Most of these damages are related to broken windows.

Relevant records (UTC)

Event	04/08/2020 14:00	Situation as of	07/08/2020 08:31
Activation	04/08/2020 18:36	Map production	12/08/2020

Data sources

Pre-event image: Pléiades-1A © CNES (2020), distributed by Airbus DS (acquired on 25/01/2020 at 08:31 UTC, GSD 0.5 m, approx. 0% cloud coverage in AoI, 21.4° off-nadir angle, pre-explosion). The image was processed using the Copernicus Rapid Mapping Service.

Post-event image: Pléiades-1B © CNES (2020), distributed by Airbus DS (acquired on 07/08/2020 at 08:31 UTC, GSD 0.5 m, approx. 12% cloud coverage in AoI, 1.5° off-nadir angle), provided under COPERNICUS (2020).

Base vector layers: OpenStreetMap © OpenStreetMap contributors, GeoNames 2015, Global Administrative Areas (2012), refined by the producer.

Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2013.

Population data: WorldPop 2020, Lebanon 100 m, <https://www.worldpop.org/geodata/summary?id=27191>

Digital Elevation Model: SRTM (90 m) (NASA/USGS)

Disclaimer

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Delivery formats: Layered Geospatial PDF, GeoJPEG and vector (ESRI shapefiles, Google Earth KML, GeoJSON).

Map produced by GAF AG released by e-GEOS (ODO).

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