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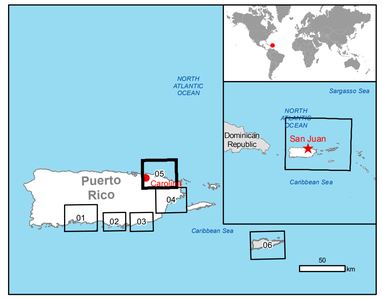
CAROLINA - PUERTO RICO (U.S.)

Hurricane - Situation as of 21/09/2017

Delineation Map



Cartographic Information

1:57000 Full color ISO A1, medium resolution (200 dpi)

0 1 2 4 km

N

Grid: WGS 1984 UTM Zone 20N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend

Crisis Information
- Flooded Area (21/09/2017 10:14 UTC)

General Information
- Area of Interest

Settlements
- Populated Place
- Built-Up Area

Hydrology
- Coastline
- Dam
- River
- Stream
- Lake
- Reservoir
- River

Transportation
- Bridge
- Harbour
- Runway
- Motorway
- Primary Road
- Secondary Road
- Local Road
- Aerodrome

Consequences within the AOI				
	Unit of measurement		Affected	Total in AOI
Flooded area	ha		498.7	
Estimated population	No. of people		1518	417077
Settlements	Build-up area	ha	11.6	16054.5
Transportation	Bridge	No.	3	103
	Runways	km	0.0	5.8
	Motorways	km	0.5	30.6
	Primary roads	km	0.1	57.3
	Secondary roads	km	0.0	74.1
	Local roads	km	1.5	317.3
	Aerodrome	ha	0.8	463.4

Map Information

Maria is the 6th hurricane to have formed in the Atlantic Basin this season. Rainfall on many of the islands on Maria's path could cause life-threatening flash floods and mudslides. In the U.S. Virgin Islands and in Puerto Rico the Public Authorities have convened in advance of Hurricane Maria and have already placed several provinces on alert for hurricane conditions. Authorities are evaluating priority evacuation zones.

The present map shows the flood delineation in the area of Carolina (Puerto Rico). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The estimated geometric accuracy is 5 m CE90 or better, from native positional accuracy of the background satellite image.

Relevant date records			
Event	19/09/2017	Situation as of	21/09/2017
Activation	19/09/2017	Map production	03/11/2017

Data Sources

Pre-event image: Sentinel-2A/B (2017) (acquired on 17/02/2017 at 15:07 UTC, GSD 10 m, approx. 6% cloud coverage in AoI, 0° off-nadir angle) provided under COPERNICUS by the European Union and ESA.
Post-event image: Sentinel-1A/B (2017) (acquired on 21/09/2017 at 10:14 UTC, GSD 10 m) provided under COPERNICUS by the European Union and ESA.

Base vector layers: OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames 2015, refined by the producer.
Inset maps: Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2013.

Population data: Landscan 2010 © UT BATTELLE, LLC
Digital Elevation Model: SRTM 90 m (NASA/USGS)

Disclaimer

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Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.
Map produced by GAF AG released by e-GEOS (ODO).

For the latest version of this map and related products visit
http://emergency.copernicus.eu/EMSR243

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