


EMSR847 - AOI29

Tropical Storm Melissa in the Carribean

BARTONS

Situation as of 01/11/2025 15:53 UTC

Grading - Overview map 01



JAMAICA

29

Kingston

Caribbean Sea



Flooded area

1,364.4 ha



Potentially affected population ~ Not available

Affected Built-up and Transportations



Built-Up


686 No.




Road


8.4 km


Crisis Information

 Flooded Area


Built Up Grading


 Destroyed


 Damaged


 Possibly damaged

Transportation Grading


 Road, Damaged


 Road, Possibly damaged


 Local road, No visible damage

 Track, No visible damage


General Information

 Area of Interest


 Detail map

 Not Analysed


Administrative Boundaries

 Region

Placenames

 Placename

Hydrography

 Lake, River


Event: On 25 October 2025 at 20:00, Tropical Storm Melissa is forecast to affect Jamaica and the southern peninsula of Haiti. The event is expected to cause damage to housing, infrastructure, and transport networks due to heavy rainfall, strong winds, flooding, and landslides. Hurricane conditions are forecast for Jamaica during the weekend and subsequently for the southern peninsula of Haiti and Cuba. Copernicus EMS Rapid Mapping is requested to provide flood extent and damage assessment emergency mapping.

Data sources and analysis: Pre-event image: WorldView-2 © Vantor (2025), provided by European Space Imaging (acquired on 01/02/2025 at 15:49 UTC, resolution 0.4 m). Post-event image: Pléiades-1A/B © CNES (2025), distributed by Airbus DS (acquired on 01/11/2025 at 15:53 UTC, resolution 0.5 m). This image is used as background image. All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

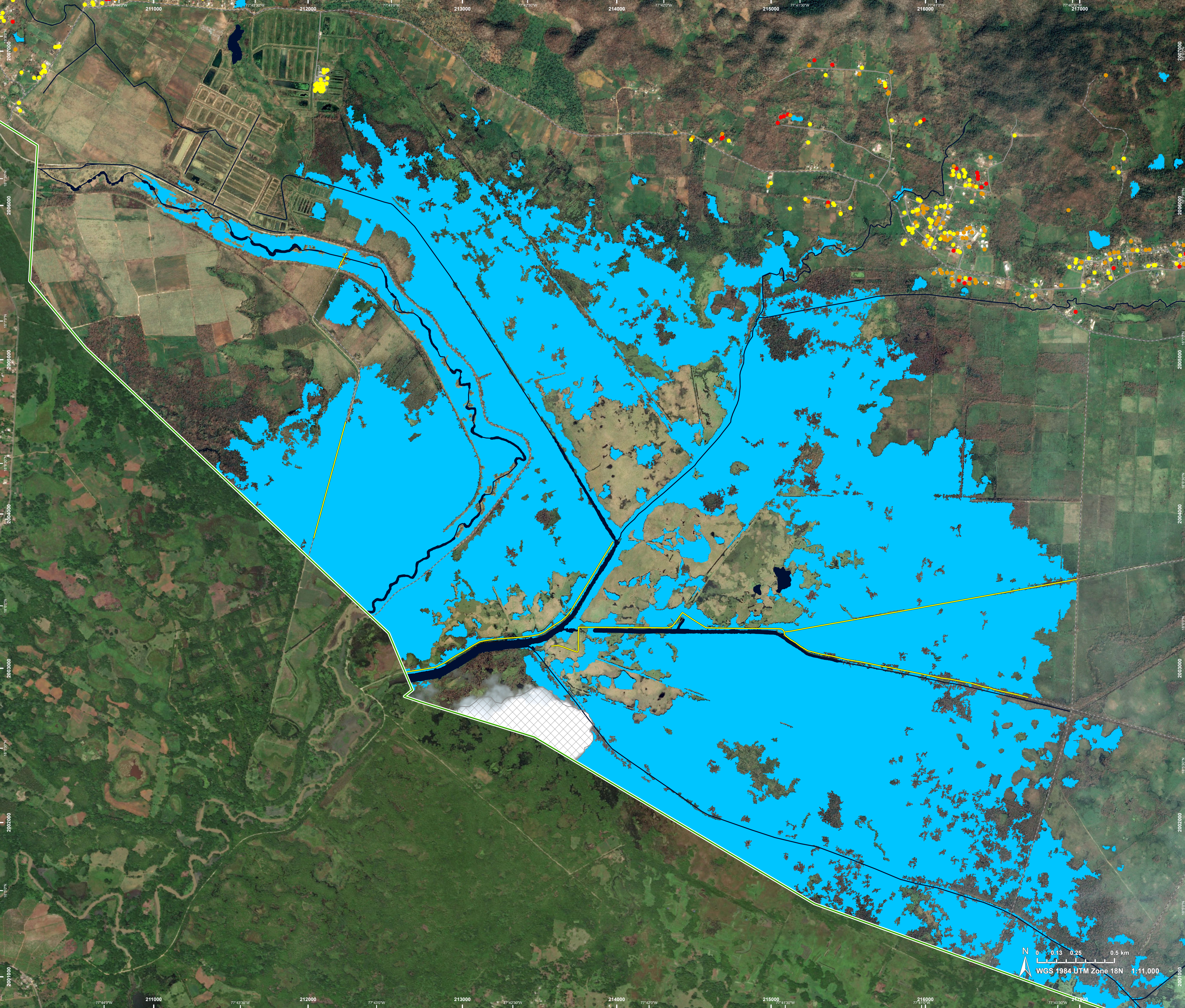
The thematic layer has been derived from post-event satellite image by means of visual interpretation.

Due to cloud cover, the damage assessment is not complete.


Map produced by GAF AG released by e-GEOS on the 02/11/2025.






Details on this activation and service conditions available through the QR code or at the link: <https://mapping.emergency.copernicus.eu/activations/EMSR847>






- Crisis Information**

 -  Flooded Area



Built Up Grading

 -  Destroyed
 -  Damaged
 -  Possibly damaged


Transportation Grading

 -  Road, Possibly damaged
-  Local road, No visible damage
 -  Track, No visible damage

General Information

 -  Area of Interest
 -  Not Analysed

Hydrography

 -  Lake, River

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Consequences within the AOI

				LATEST IMPACT	
				Unit of measurement	EO-based observation*
Crisis information	Flooded area			ha	1,364.4
	Maximum of all extents**			ha	1,364.4

				Destroyed	Damaged	Possibly damaged***	Total affected****	Total in AOI
Estimated population		Inhabitants	No.				~ 10	~ 3,100
Assets	Built-up	Residential Buildings	No.	85	189	403	677	2,403
		Other non-residential buildings	No.	1	7	1	9	9
	Transportation	Local Road	km	0	0.2	0	0.2	50.0
		Cart Track	km	0	0.2	8.0	8.2	46.1
	Facilities	Power plant constructions	ha	0	0	0	0	1.1
		Long-distance pipelines, communication and electricity lines	km	0	0	0	0	1.7
	Land use	Shrub and/or herbaceous vegetation association	ha				697.0	2,591.3
		Forests	ha				461.0	5,060.3
		Inland wetlands	ha				199.3	422.4
		Heterogeneous agricultural areas	ha				6.9	273.3
		Other	ha				0.1	38.1

* Corresponds to the water surface observed in the most recent satellite imagery, excluding permanent water.

** Corresponds to the geographic union (and NOT the sum) of all Crisis Information layers.

*** It is intersected with the population and asset datasets to estimate the impacts.

**** Sum of all damage classes

Disclaimer:

Full disclaimer and other helpful information available in the online manual:

<https://mapping.emergency.copernicus.eu/about/rapid-mapping-manual/>

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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.

Estimated Population:

Estimated population is based on Copernicus Global Human Settlement Layer (GHSL) dataset. Additional population datasets and analysis are available in the summary table.

Data Sources:

Base Vector Layers: OpenStreetMap © OpenStreetMap contributors (2025); Wikimapia.org; GeoNames 2015; Global Administrative Areas (2022), refined by the producer, Globe Land 30 (2010), Copernicus Global Land Service: Land Cover (2019).

Inset Maps: Natural Earth 2023; HydroLAKES 2016 by HydroSHEDS; © EuroGeographics, © TurkStat. Source: European Commission – Eurostat/GISCO, 2021.

Digital Elevation Model:

FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus, 2020).

Access to the portal

