

EMSR847 - AOI24
Tropical Storm Melissa in the Caribbean
HOLGUIN

Situation as of 03/11/2025 15:45 UTC
Grading MONIT01 - Overview map 01



Flooded area
5.1 ha
Flood trace
4.2 ha
Potentially affected
population ~ Not available

Affected Built-up and Transportations

Built-Up
118 No.
Road
4.4 km

Crisis Information
Flooded Area
Flood trace
Built Up Grading
Destroyed
Damaged
Possibly damaged
Transportation Grading
Road, Damaged
Road, Possibly damaged
Highway, No visible damage
Main road, No visible damage
Local road, No visible damage
Track, No visible damage
Railway, No visible damage
General Information
Area of Interest
Detail map
Not Analysed
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-3 © Vantor (2024), provided by European Space Imaging (acquired on 14/09/2024 at 15:32 UTC, resolution 0.3 m). Post-event image: Pléiades Neo © CNES (2025), distributed by Airbus DS (acquired on 03/11/2025 at 15:45 UTC, resolution 0.3 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 03/11/2025.

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



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Situation as of 03/11/2025 15:45 UTC

Grading MONIT01 - Detail map 02



Crisis Information



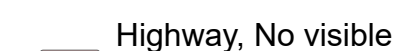
Built Up Grading

Built Up Grading



- Damaged

Transportation Grading

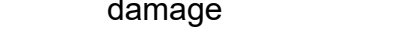


_____ Highway, No visible

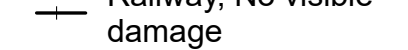


damage

Local road, No visible

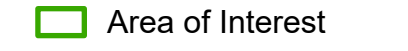


— Track, No visible damage

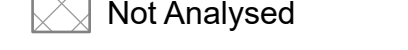


—+ Railway, No visible damage

General Information



 Area of Interest

 Not Analysed

Hydrography



Lake, River

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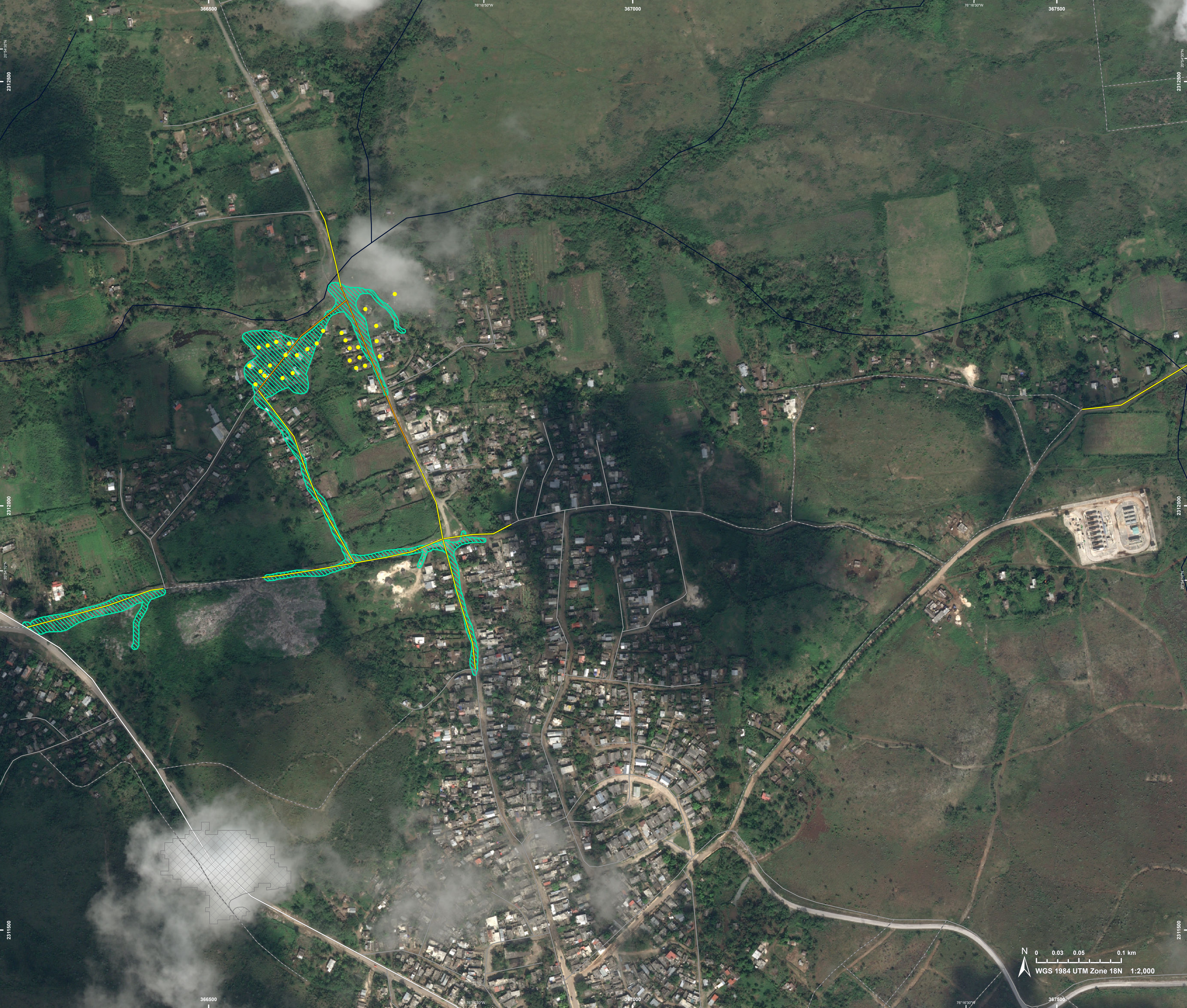


Details on this activation and service conditions available through the QR code or at the link: <https://mapping.emergency.copernicus.eu/activations/EMSR847>



PROGRAMME OF THE
EUROPEAN UNION





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Situation as of 03/11/2025 15:45 UTC
Grading MONIT01 - Detail map 03



Flood trace

Built Up Grading

Possibly damaged

Transportation Grading

Road, Damaged

Road, Possibly damaged

Main road, No visible damage

Local road, No visible damage

Track, No visible damage

General Information

Area of Interest

Not Analysed

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.

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Consequences within the AOI

			Unit of measurement	LATEST IMPACT	
				EO-based observation*	
Crisis information	Flood trace		ha		4.2
	Flooded area		ha		5.1
	Maximum of all extents**		ha		9.4

Estimated population		Inhabitants	No.	Destroyed	Damaged	Possibly damaged***	Total affected****	Total in AOI
Assets	Built-up	Residential Buildings	No.	1	48	68	117	~ 340,000
		Office buildings	No.	0	0	0	0	2,803
		Administrative	No.	0	0	0	0	1
		Institutional	No.	0	0	0	0	4
		Police station	No.	0	0	0	0	3
		Fire station	No.	0	0	0	0	2
		Wholesale and retail trade buildings	No.	0	0	0	0	12
		Industrial buildings	No.	0	1	0	1	15
		Reservoirs, silos and warehouses	No.	0	0	0	0	5
		Public entertainment buildings	No.	0	0	0	0	5
		Museums and libraries	No.	0	0	0	0	3
		School, university and research buildings	No.	0	0	0	0	31
		Hospital or institutional care buildings	No.	0	0	0	0	6
		Non-residential farm buildings	No.	0	0	0	0	2
		Buildings used as places of worship and for religious activities	No.	0	0	0	0	2
		Historic or protected monuments	No.	0	0	0	0	1
		Hotel buildings	No.	0	0	0	0	6
		Communication buildings, stations, terminals and associated buildings	No.	0	0	0	0	2
	Transportation	Highways	km	0	0	0	0	42.3
		Primary Road	km	0	0	0	0	31.1
		Secondary Road	km	0	0	0	0	21.4
		Local Road	km	0	0.6	2.3	2.9	526.8
		Cart Track	km	0	0	1.6	1.6	99.8
		Long-distance railways	km	0	0	0	0	15.7
	Facilities	Settling Basin	ha	0	0	0	0	0.8
		Constructions for mining or extraction	ha	0	0	0	0	0.5
		Power plant constructions	ha	0	0	0	0	0.7
		Sport and recreation constructions	ha	0	0	0	0	138.0
		Long-distance pipelines, communication and electricity lines	km	0	0	0	0	30.1
	Land use	Forests	ha				5.2	2,145.9
		Shrub and/or herbaceous vegetation association	ha				2.2	1,845.9
		Other	ha				1.3	2,656.8
		Heterogeneous agricultural areas	ha				0.6	398.4
		Inland wetlands	ha				0.04	5.2

* 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

