

 **EMSR847 - AOI24**  
**Tropical Storm Melissa in the Caribbean**  
**HOLGUIN**

**Situation as of 02/11/2025 15:28 UTC**  
Grading - Overview map 01














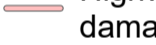


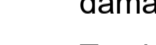

 **Flood Traces**  
4.4 ha

 **Potentially affected population**  
~ 10

**Affected Built-up and Transportations**

 **Built-Up**  
94 No.

 **Road**  
4.0 km

- |   |  |
|---|--|
| <b>Crisis Information</b>   | <b>General Information</b>   |
|  Flooded Area                    |  Area of Interest |
|  Flood trace                     |  Detail map       |
| <b>Built Up Grading</b>   |  Not Analysed     |
|  Damaged                         | <b>Placenames</b>  |
|  Possibly damaged              |  Placename      |
| <b>Transportation Grading</b>   | <b>Hydrography</b>   |
|  Road, Damaged                 |  Lake, River    |
|  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    |  |

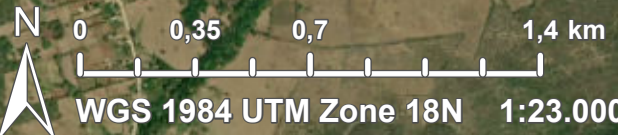
**Event:** On 25 October 2025 at 20:00, Tropical Storm Melissa is forecast to affect Jamaica and the southern peninsula of Haiti. The event is expected to cause damage to housing, infrastructure, and transport networks due to heavy rainfall, strong winds, flooding, and landslides. Hurricane conditions 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 02/11/2025 at 15:28 UTC, resolution 0.3 m).  
This image is used as background image.  
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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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Grading - Detail map 02



- Crisis Information**

  -  Flooded Area
  - Built Up Grading**
  -  Damaged
  - Transportation Grading**
  -  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
  -  Not Analysed
  - Hydrography**
  -  Lake, River

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Situation as of 02/11/2025 15:28 UTC  
Grading - 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

			LATEST IMPACT	
			Unit of measurement	EO-based observation*
Crisis information	Flood trace		ha	4,4
	Maximum of all extents**		ha	4,4

Estimated population		Inhabitants		Destroyed	Damaged	Possibly damaged***	Total affected****	Total in AOI
				No.			~ 10	~ 340.000
Assets	Built-up	Residential Buildings	No.	0	30	64	94	2.804
		Office buildings	No.	0	0	0	0	1
		Administrative	No.	0	0	0	0	1
		Institutional	No.	0	0	0	0	3
		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	0	0	0	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	27
		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
		Building point	No.	0	0	0	0	5
		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	1,9	2,5	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				2,2	2.145,9
		Other	ha				1,3	2.656,8
		Shrub and/or herbaceous vegetation association	ha				0,7	1.845,9
		Heterogeneous agricultural areas	ha				0,2	398,4
		Inland wetlands	ha				0	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

