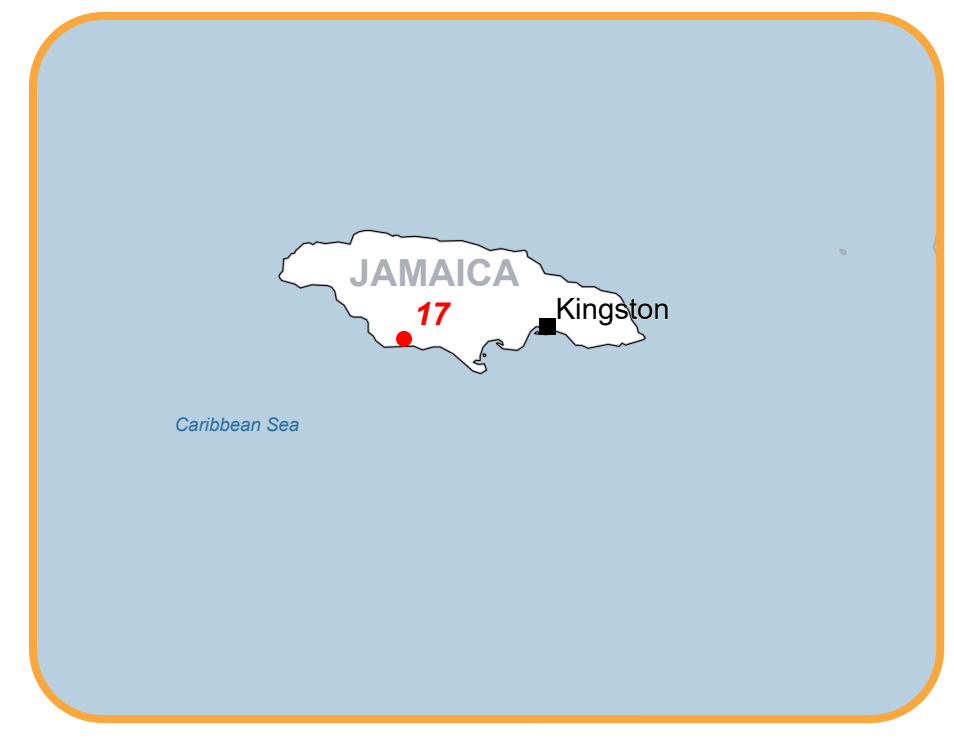




EMSR847 - AO117
Tropical storm Melissa in the Caribbean
BULL SAVANNA

Situation as of 29/10/2025 16:15 UTC
Grading - Overview map 01





Flooded area
0.9 ha











Potentially affected population
~ Not available

Affected Built-up and Transportations










Built-Up
299 No.

Crisis Information

-  Flooded Area
- Built Up Grading**
 -  Destroyed
 -  Damaged
 -  Possibly damaged
- Transportation Grading**
 -  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
-  Image Footprint
-  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: Pléiades-1A/B © CNES (2024), distributed by Airbus DS (acquired on 21/01/2024 at 15:53 UTC, resolution 0.5 m). Post-event image: Pléiades-1A/B © CNES (2025), distributed by Airbus DS (acquired on 29/10/2025 at 16:15 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 dense cloud cover, the damage assessment is not complete.





EMSR847 - AOI17

Tropical storm Melissa in the Caribbean

BULL SAVANNA

Situation as of 29/10/2025 16:15 UTC

Grading - Detail map 02



Crisis Information

- Flooded Area

Built Up Grading

- Destroyed
- Damaged
- Possibly damaged

Transportation Grading

- Local road, No visible damage
- Track, No visible damage

- Railway, No visible damage

General Information

- Area of Interest
- Image Footprint

Administrative Boundaries

- Region

Placenames

- Placename

Hydrography

- Lake, River

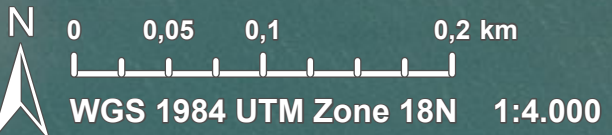
Event: On 25 October 2025 at 20:00, Tropical Storm Melissa is forecast to affect Jamaica and the southern peninsula of Haiti. The event is expected to cause damage to housing, infrastructure, and transport networks due to heavy rainfall, strong winds, flooding, and landslides. Hurricane conditions are 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: Pléiades-1A/B © CNES (2024), distributed by Airbus DS (acquired on 21/01/2024 at 15:53 UTC, resolution 0.5 m). Post-event image: Pléiades-1A/B © CNES (2025), distributed by Airbus DS (acquired on 29/10/2025 at 16:15 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 dense cloud cover, the damage assessment is not complete.

Map produced by GAF AG released by e-GEOS on the 30/10/2025.

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



Consequences within the AOI

			LATEST IMPACT	
			Unit of measurement	EO-based observation*
Crisis information	Flooded area		ha	0,9
	Maximum of all extents**		ha	0,9

				Destroyed	Damaged	Possibly damaged***	Total affected****	Total in AOI
Estimated population		Inhabitants	No.				NA	~ 45.000
Assets	Built-up	Residential Buildings	No.	41	117	141	299	22.201
		Hotel buildings	No.	0	0	0	0	1
	Transportation	Primary Road	km	0	0	0	0	11,9
		Secondary Road	km	0	0	0	0	21,4
		Local Road	km	0	0	0	0	432,9
		Cart Track	km	0	0	0	0	33,3
		Long-distance railways	km	0	0	0	0	11,0
	Land use	Forests	ha				0,8	5.648,6
		Other	ha				0,1	1.034,5
		Shrub and/or herbaceous vegetation association	ha				0	3.283,6
		Heterogeneous agricultural areas	ha				0	1.108,5
		Inland wetlands	ha				0	6,9

* 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).



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Access to the portal

