



EMSR847 - AOI20
Tropical storm Melissa in the Caribbean
NEGRIL

Situation as of 30/10/2025 16:05 UTC
Grading MONIT01 - Overview map 01





Flooded area
25.0 ha



Potentially affected
population
~ 30


Affected Built-up and Transportations




Built-Up
611 No.




Road
16.4 km




Flooded Area




Flood trace




Destroyed




Damaged




Possibly damaged




Road, Possibly damaged




Main road, No visible
damage




Local road, No visible
damage




Track, No visible damage




Area of Interest




Detail map



Not Analysed



Placename



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: ESRI World Imagery © DigitalGlobe 2025 (acquired on 04/02/2025 at 00:00 UTC, resolution 0,5 m). Union and ESA, all rights reserved.
Post-event image: Pléiades Neo © CNES (2025), distributed by Airbus DS (acquired on 30/10/2025 at 16:05 UTC, resolution 0,5 m).


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The thematic layer has been derived from post-event satellite image using a semi-automatic.


Map produced by ITHACA released by e-GEOS on the 01/11/2025.



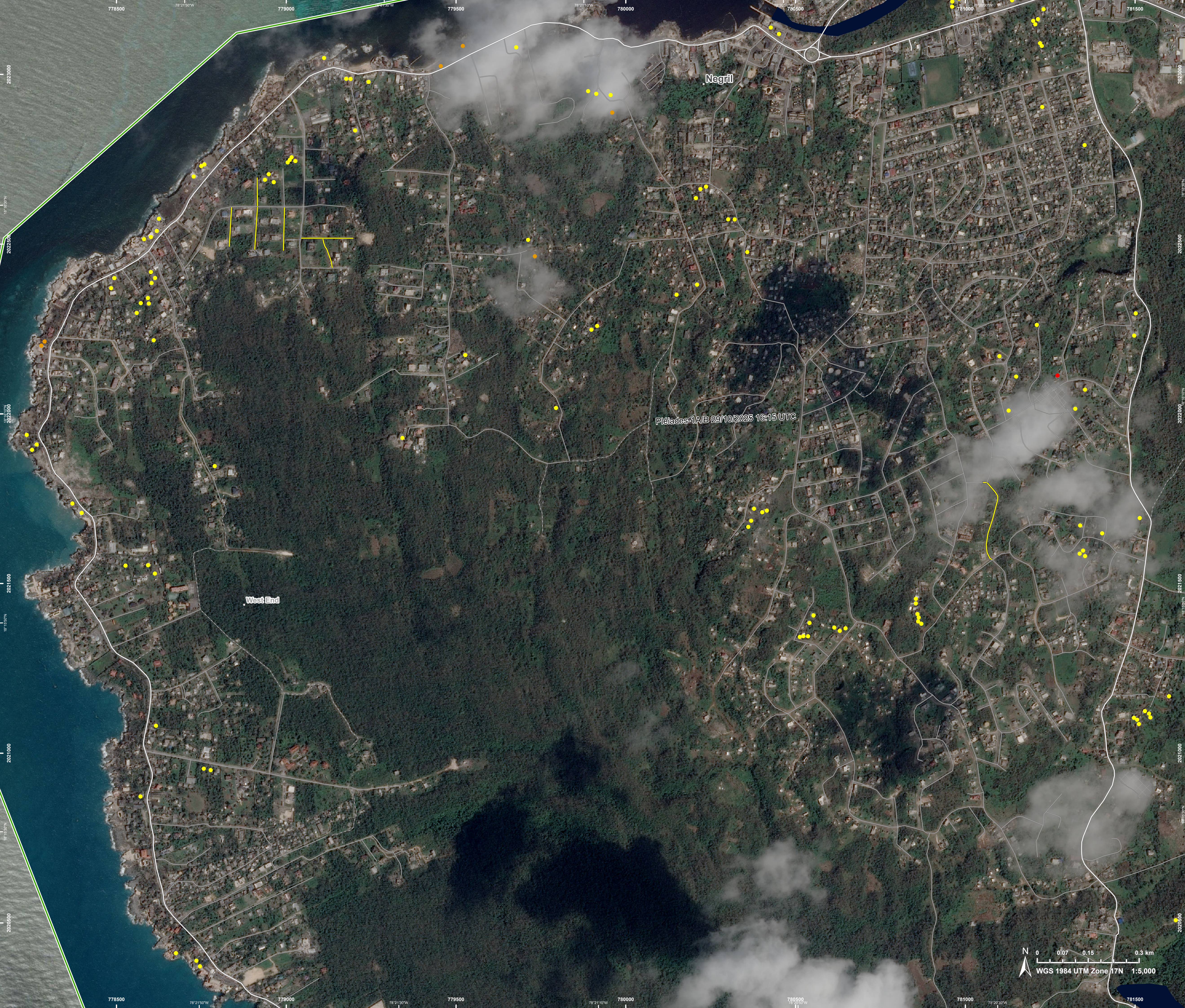
Details on this activation and service conditions available through the QR code or at the link: <https://mapping.emergency.copernicus.eu/activations/EMSR847>



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Copernicus
Europe's eyes on Earth





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Grading MONIT01 - Detail map 02



Built Up Grading

● Destroyed

● Damaged

● Possibly damaged

Transportation Grading

— Road, Possibly damaged

— Main road, No visible damage

— Local road, No visible damage

— Track, No visible damage

General Information

□ Area of Interest

□ 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.


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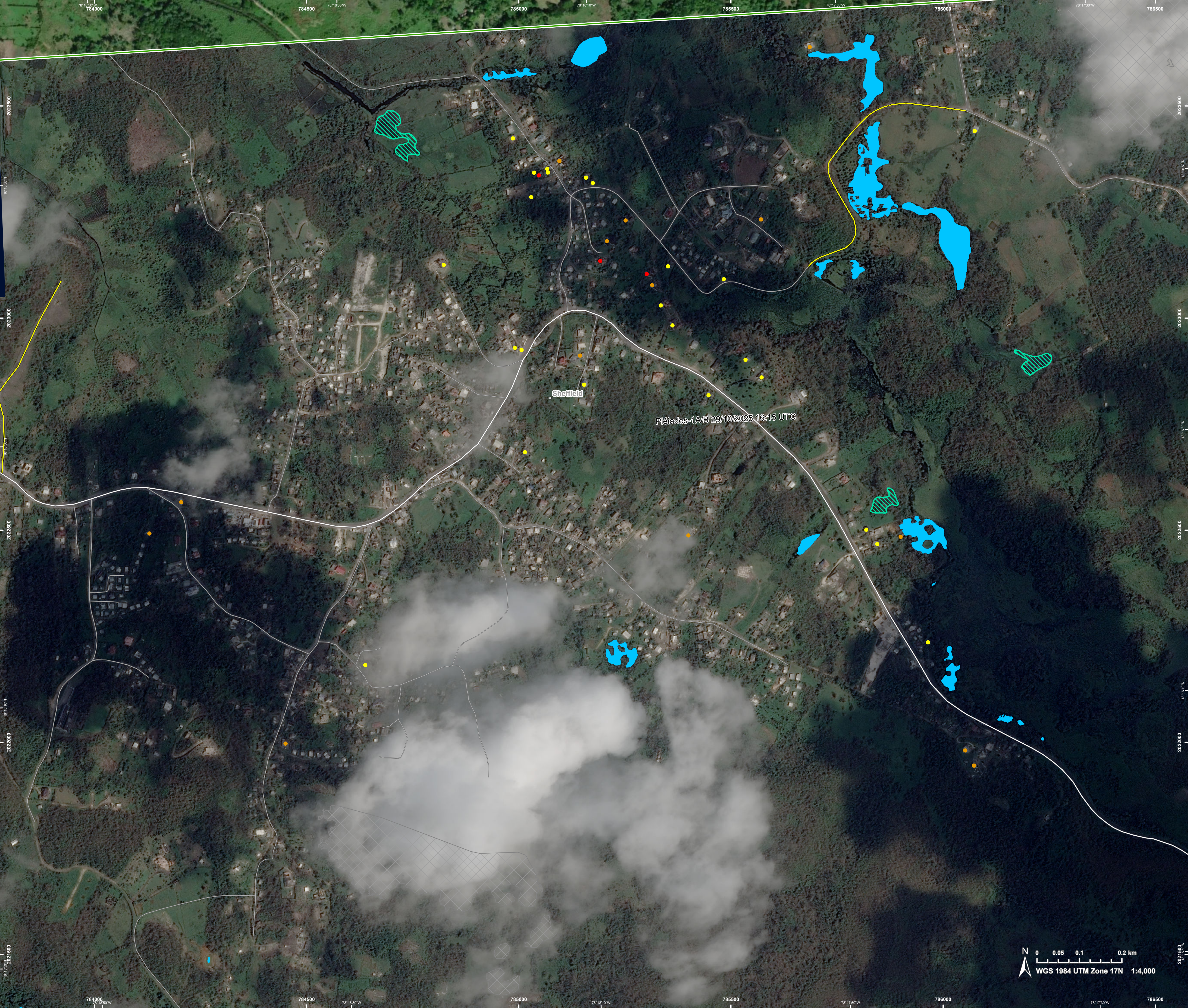
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Tropical storm Melissa in the Caribbean
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Situation as of 30/10/2025 16:05 UTC
Grading MONIT01 - Detail map 03



- | | |
|--|---|
|  Flooded Area |  Local road, No visible damage |
|  Flood trace | |
| Built Up Grading | General Information |
|  Destroyed |  Area of Interest |
|  Damaged |  Not Analysed |
|  Possibly damaged | Placenames |
| Transportation Grading |  Placename |
|  Road, Possibly damaged | Hydrography |
|  Main road, No visible damage |  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.

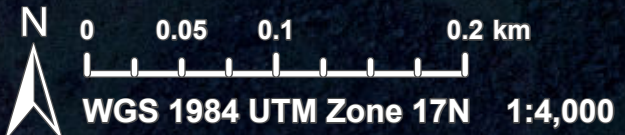
Data sources and analysis: Pre-event image: ESRI World Imagery © DigitalGlobe 2025 (acquired on 04/02/2025 at 00:00 UTC, resolution 0,5 m). Union and ESA, all rights reserved.
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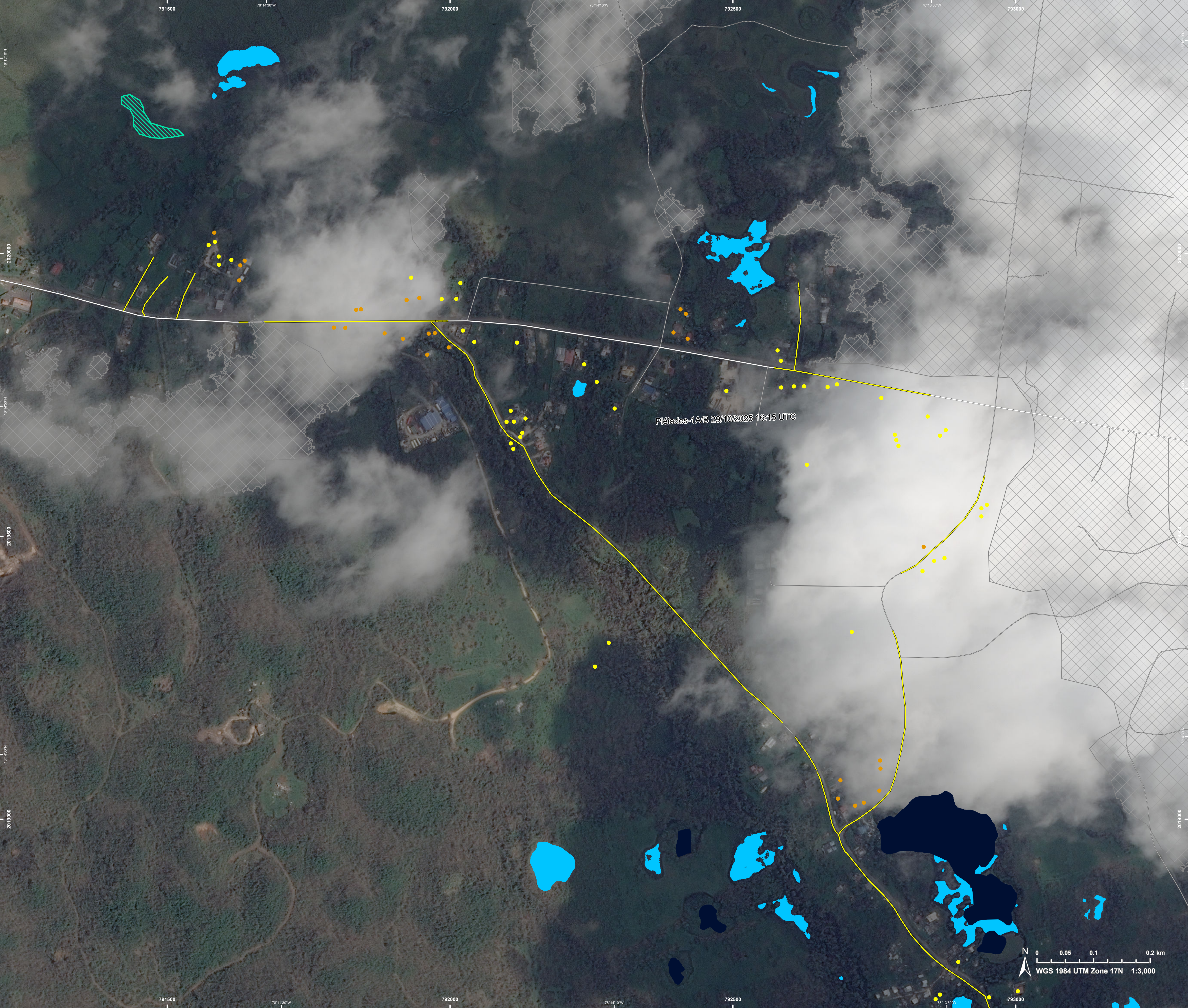
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Grading MONIT01 - Detail map 04




-  Flooded Area


 Flood trace


Built Up Grading


 Damaged


 Possibly damaged


Transportation Grading

 Road, Possibly damaged


 Main road, No visible damage



 Local road, No visible damage



 Track, No visible damage

 Not Analysed

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.
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Consequences within the AOI

			LATEST IMPACT	
			Unit of measurement	EO-based observation*
Crisis information	Flood trace		ha	1.5
	Flooded area		ha	25.0
	Maximum of all extents**		ha	26.5

Estimated population		Inhabitants	No.	Destroyed	Damaged	Possibly damaged***	Total affected****	Total in AOI
							~ 30	~ 27,000
Assets	Built-up	Residential Buildings	No.	0	0	1	1	136
		Police station	No.	0	0	0	0	2
		Fire station	No.	0	0	0	0	1
		Wholesale and retail trade buildings	No.	0	0	2	2	54
		School, university and research buildings	No.	0	0	0	0	4
		Other non-residential buildings	No.	2	7	5	14	32
		Non-residential farm buildings	No.	0	0	0	0	1
		Other buildings not elsewhere classified	No.	0	0	0	0	3
		Hotel buildings	No.	0	0	9	9	50
		Communication buildings, stations, terminals and associated buildings	No.	0	0	0	0	3
		Unclassified	No.	25	125	435	585	13,889
	Transportation	Primary Road	km	0	0	0.6	0.6	17.7
		Secondary Road	km	0	0	0.4	0.4	26.1
		Local Road	km	0	0	13.7	13.7	232.9
		Cart Track	km	0	0	1.7	1.7	63.2
	Facilities	Settling Basin	ha	0	0	0	0	12.7
		Sport and recreation constructions	ha	0	0	0	0	4.2
	Land use	Forests	ha				20.0	8,939.3
		Shrub and/or herbaceous vegetation association	ha				5.3	1,143.5
		Heterogeneous agricultural areas	ha				0.9	788.5
		Inland wetlands	ha				0.2	350.2
		Other	ha				0.2	1,533.7

* 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

