

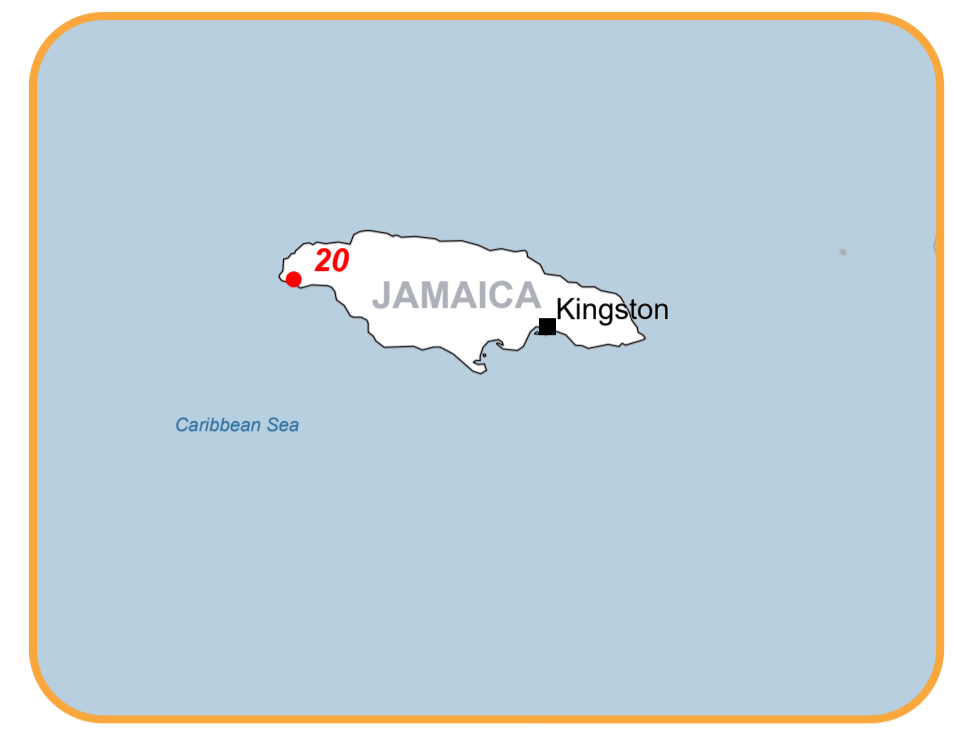


EMSR847 - AOI20

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

**Crisis Information**

- Flooded Area
- Flood trace

**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
- Detail map
- Not Analysed

**Placenames**

- Placename

**Hydrography**

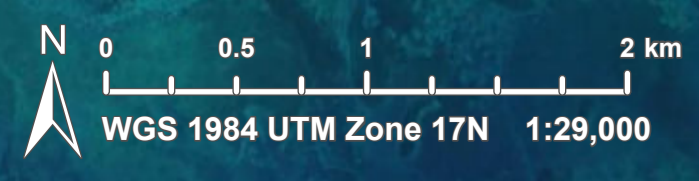
- Lake, River

**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: 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 10/11/2025.

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





 **EMSR847 - AOI20**  
Tropical storm Melissa in the Caribbean  
**NEGRIL**

**Situation as of 30/10/2025 16:05 UTC**  
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
- General Information**
- Track, No visible damage
  - 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.

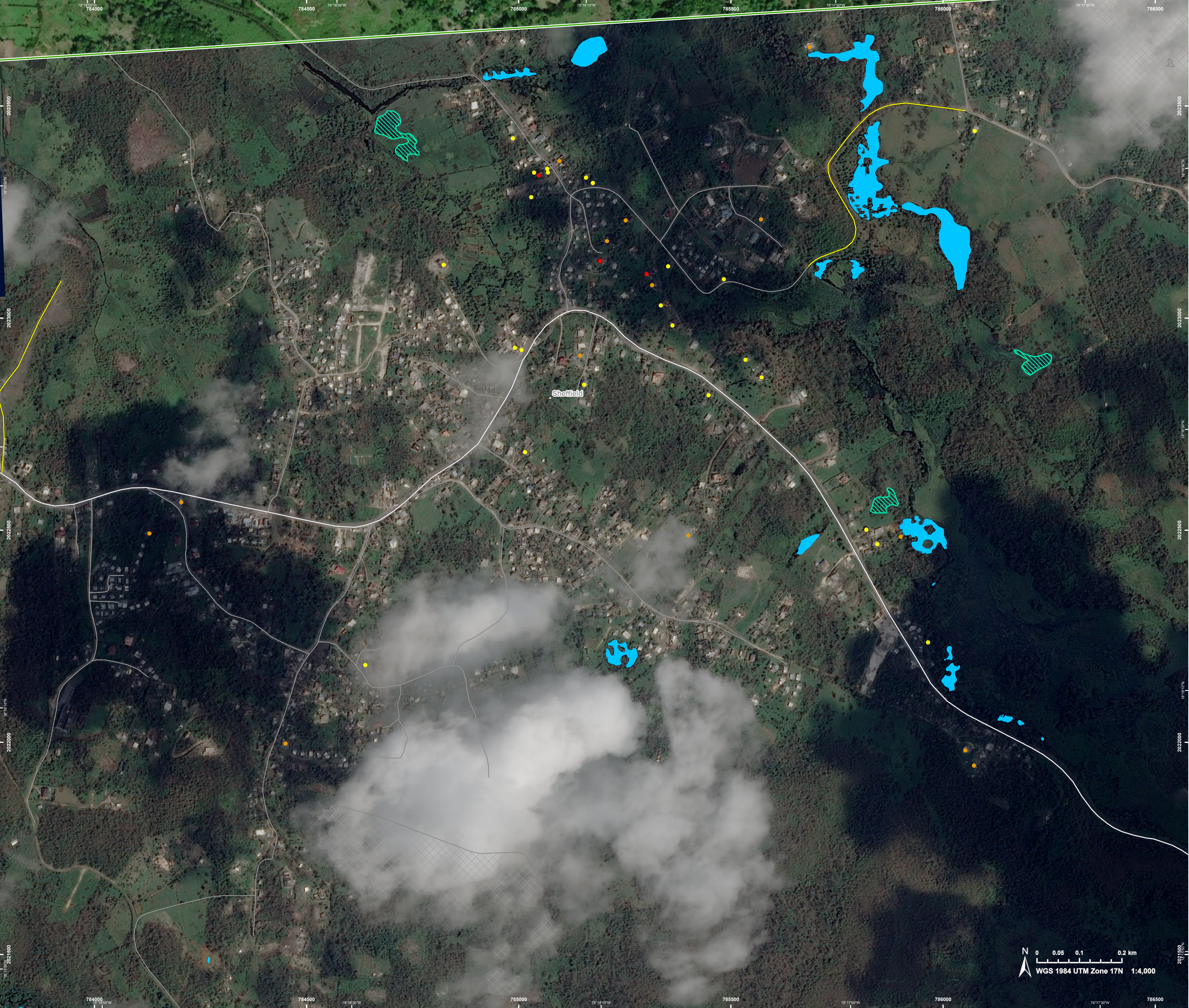
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EMSR847 - AOI20

Tropical storm Melissa in the Caribbean

NEGRIL

Situation as of 30/10/2025 16:05 UTC

Grading MONIT01 - Detail map 03



**Crisis Information**

- Flooded Area
- Flood trace

**Built Up Grading**

- Destroyed
- Damaged
- Possibly damaged

**Transportation Grading**

- Road, Possibly damaged

- Main road, No visible damage
- Local road, 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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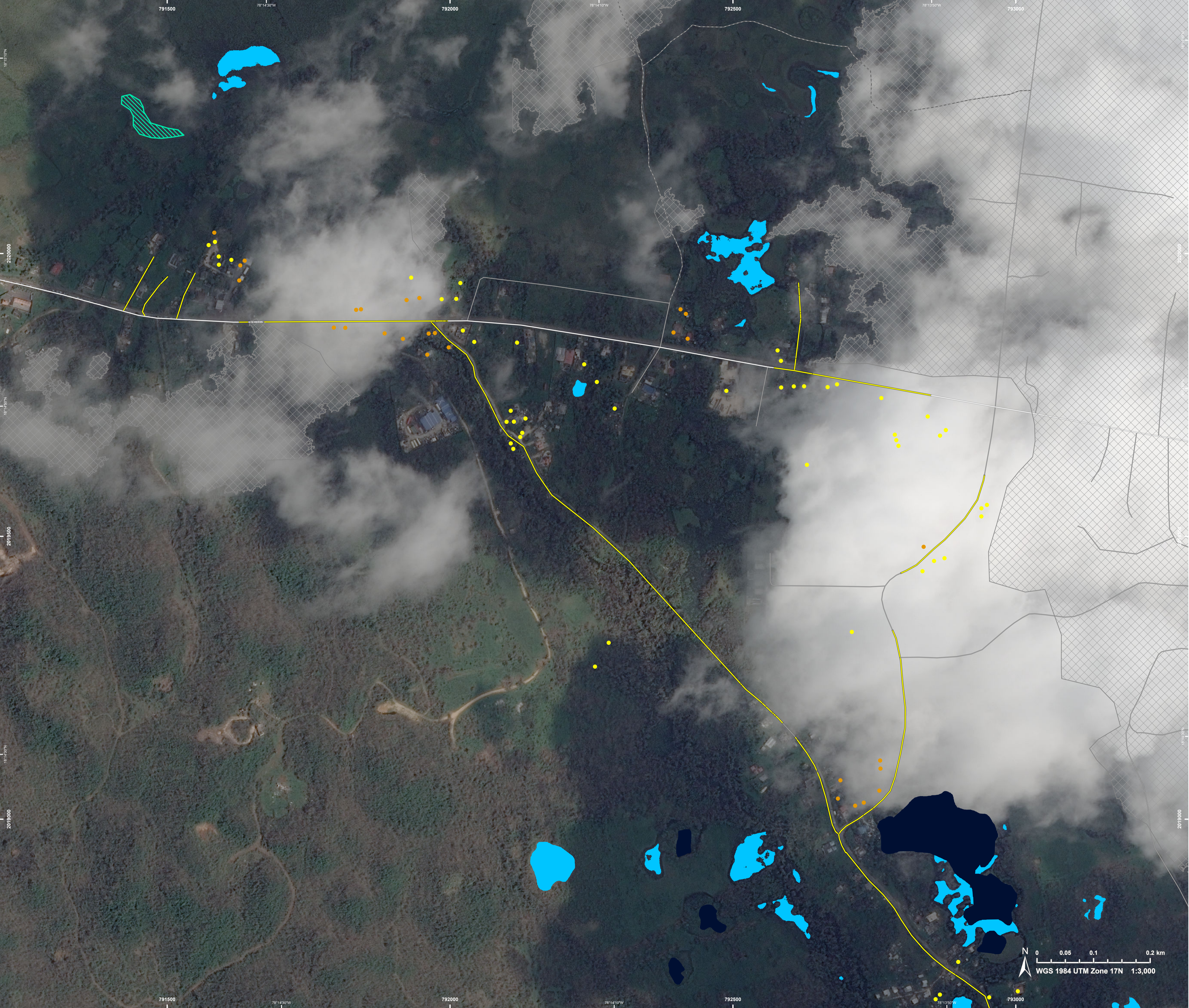
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**EMSR847 - AOI20**  
**Tropical storm Melissa in the Caribbean**  
**NEGRIL**

**Situation as of 30/10/2025 16:05 UTC**  
Grading MONIT01 - Detail map 04



- Crisis Information**
- Flooded Area
  - Flood trace
- Built Up Grading**
- Damaged
  - Possibly damaged
- Transportation Grading**
- Road, Possibly damaged
- Legend**
- 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
Assets		Built-up	No.	0	0	1	~ 30	~ 27,000
		Residential Buildings	No.	0	0	0	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

