

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

Situation as of 31/10/2025 16:00 UTC
Grading MONIT02 - Overview map 01



 **Flooded area**
50.6 ha


 **Potentially affected population**
~ 20

Affected Built-up and Transportations




 **Built-Up**
653 No.

 **Road**
16.2 km







- Crisis Information**




 -  Flooded Area

Built Up Grading


 -  Destroyed
 -  Damaged
 -  Possibly damaged

Transportation Grading


 -  Road, Destroyed
 -  Road, Damaged
 -  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

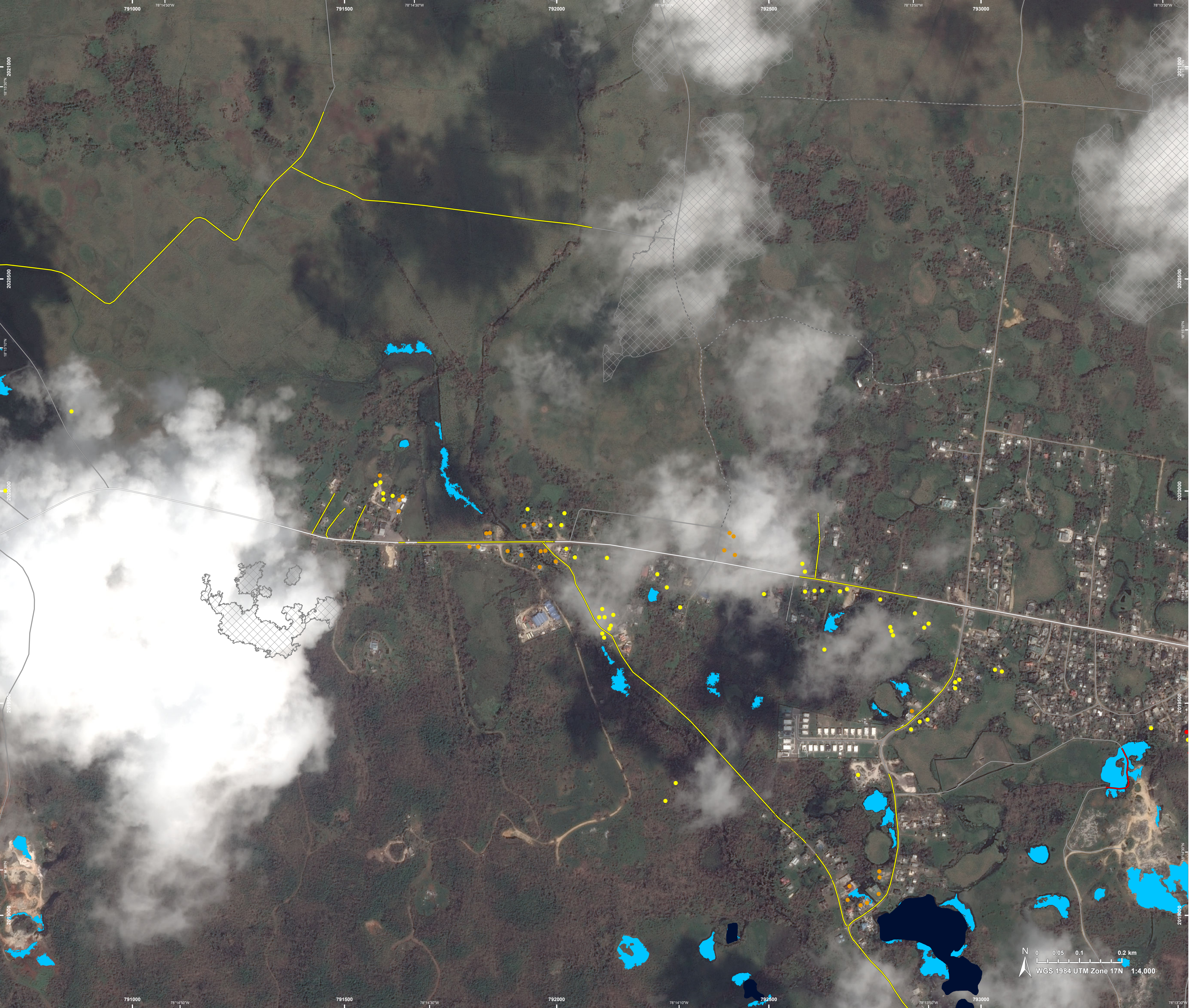
Event: On 25 October 2025 at 20:00, Tropical Storm Melissa is forecast to affect Jamaica and the southern peninsula of Haiti. The event is expected to cause damage to housing, infrastructure, and transport networks due to heavy rainfall, strong winds, flooding, and landslides. Hurricane conditions are 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-1A/B © Airbus DS (2025), (acquired on 31/10/2025 at 16:00 UTC, resolution 0.5 m). This image is used as background image.

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

 0 0.5 1 2 km
WGS 1984 UTM Zone 17N 1:29,389



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NEGRIL

Situation as of 31/10/2025 16:00 UTC
Grading MONIT02 - Detail map 02



- Crisis Information**

 - Flooded Area

Built Up Grading

 - Destroyed
 - Damaged
 - Possibly damaged
- Transportation Grading**

 - Road, Destroyed
 - Road, Possibly damaged
 - Main road, No visible damage
 - Local road, No visible damage
 - Track, No visible damage

General Information

 - Area of Interest
 - 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.

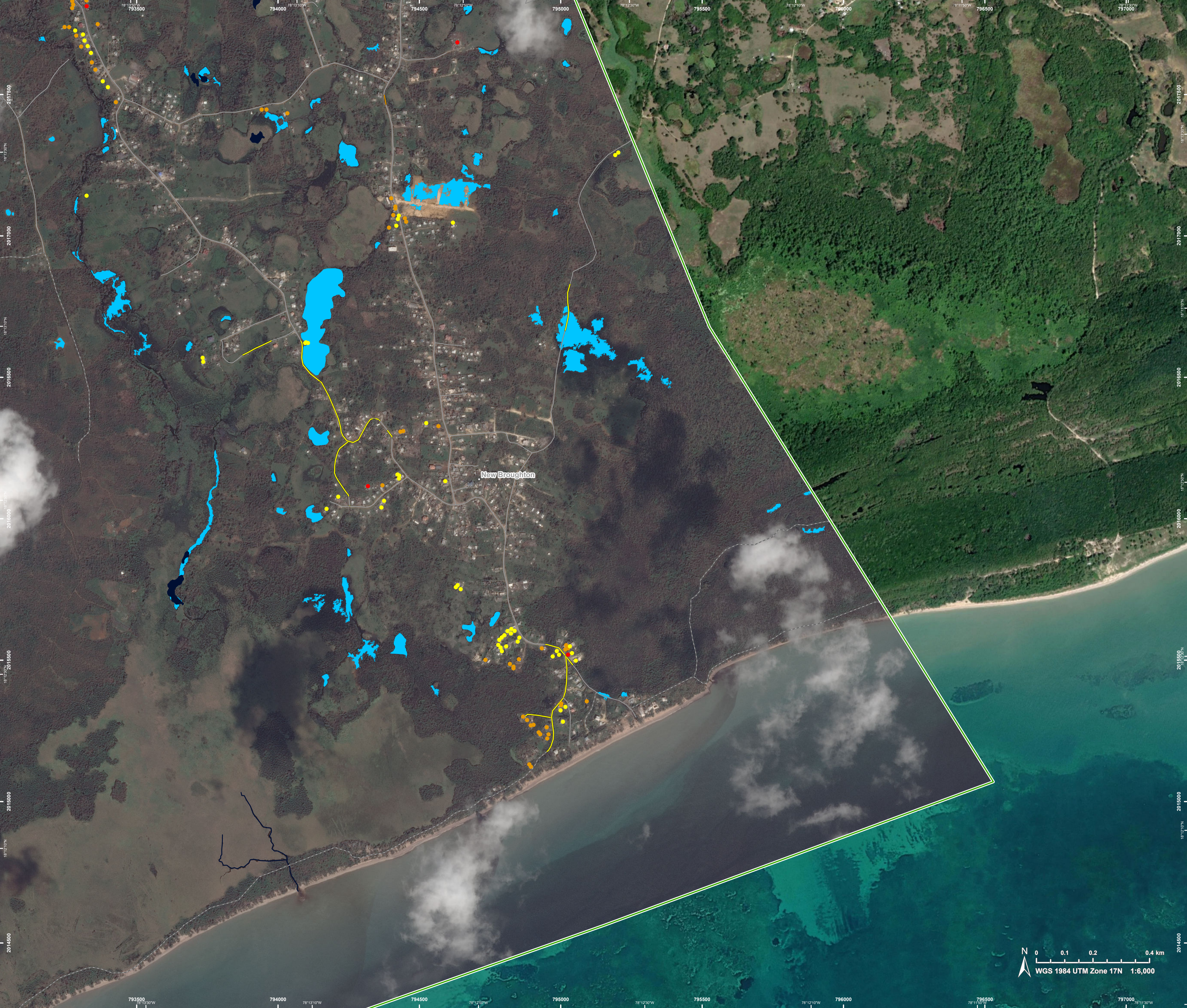
Data sources and analysis: Pre-event image: ESRI World Imagery © DigitalGlobe 2025 (acquired on 04/02/2025 at 00:00 UTC, resolution 0,5 m). Union and ESA, all rights reserved.
Post-event image: Pleiades-1A/B © Airbus DS (2025), (acquired on 31/10/2025 at 16:00 UTC, resolution 0.5 m). This image is used as background image.

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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>





EMSR847 - AOI20

Tropical storm Melissa in the Caribbean

NEGRIL

Situation as of 31/10/2025 16:00 UTC

Grading MONIT02 - Detail map 03



Crisis Information

Flooded Area

Destroyed

Damaged

Possibly damaged

Road, Damaged

Road, Possibly damaged

Local road, No visible damage

Track, No visible damage

General Information

Area of Interest

Not Analysed

Placenames

Placename

Hydrography

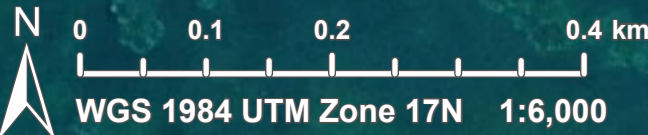
Lake, River

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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Situation as of 31/10/2025 16:00 UTC
Grading MONIT02 - Detail map 04



- Crisis Information**

 - Flooded Area

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

Placenames

 - Placename

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	Flooded area		ha	50.6
	Maximum of all extents**		ha	50.6

				Destroyed	Damaged	Possibly damaged***	Total affected****	Total in AOI
Estimated population	Inhabitants	No.					~ 20	~ 27,000
Assets	Built-up	Residential Buildings	No.	0	0	1	1	137
		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.	34	136	457	627	13,901
	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	0.2	0.04	13.2	13.5	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				34.6	8,939.3
		Shrub and/or herbaceous vegetation association	ha				12.6	1,143.5
		Heterogeneous agricultural areas	ha				2.3	788.5
		Inland wetlands	ha				1.0	350.2
		Other	ha				0.1	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

