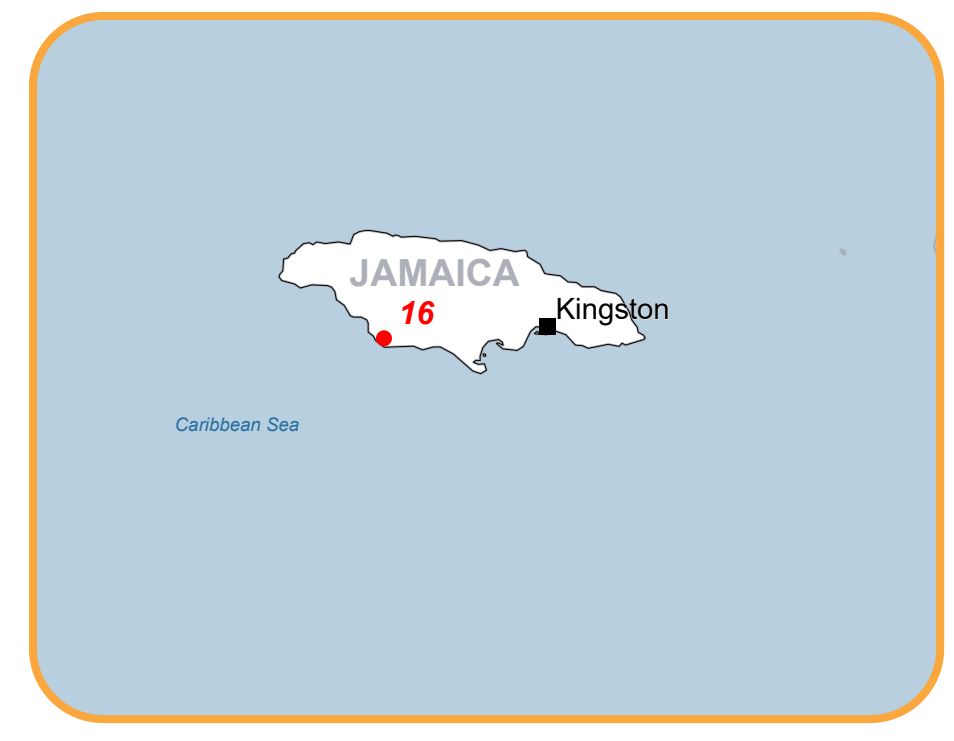


EMSR847 - AOI16  
Tropical Storm Melissa in the Caribbean  
BIG WOODS

Situation as of 30/10/2025 15:37 UTC  
Grading MONIT01 - Overview map 01





Flooded area  
202.0 ha  
Flood trace  
148.5 ha  
Landslide  
3.3 ha



Potentially affected  
population  
~ 450

Affected Built-up and Transportations



Built-Up  
363 No.



Road  
26.1 km

**Crisis Information**

- Flooded Area
- Flood trace
- Landslide

**Built Up Grading**

- Destroyed
- Damaged
- Possibly damaged

**Facilities Grading**

- Destroyed

**Transportation Grading**

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

**General Information**

- Area of Interest
- Detail map
- Not Analysed

**Placenames**

- Placename

**Hydrography**

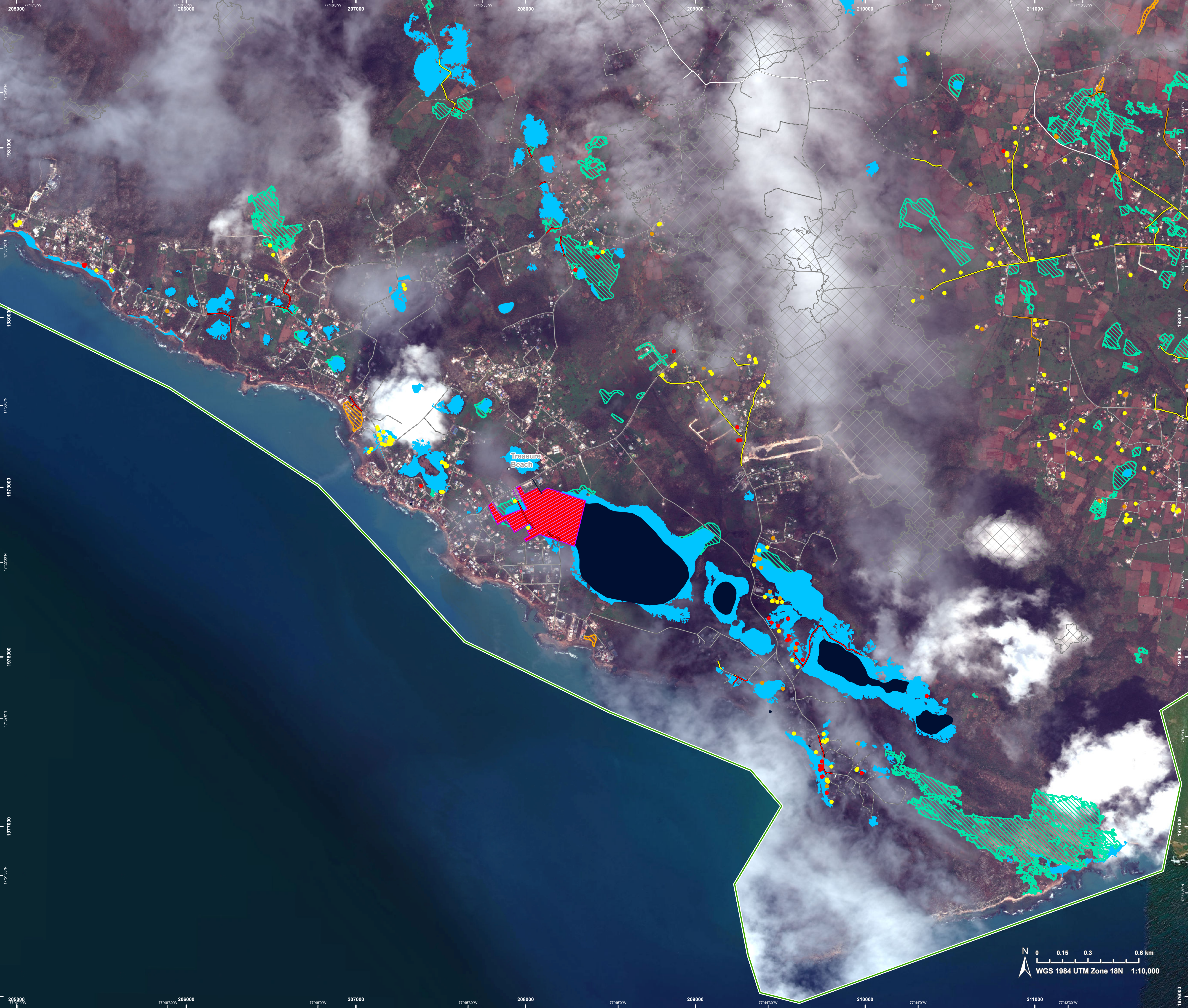
- Lake, River


**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: WorldView-3 © Vantor (2025), provided by European Space Imaging (acquired on 09/02/2025 at 15:40 UTC, resolution 0.3 m).  
Post-event image: GeoEye © Vantor (2025), provided by European Space Imaging (acquired on 30/10/2025 at 15:37 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 by means of visual interpretation.  
The area not analyzed due to dense cloud cover cumulates all cloud covers from previous post-event products.







EMSR847 - AOI16

Tropical Storm Melissa in the Caribbean


BIG WOODS

Situation as of 30/10/2025 15:37 UTC

Grading MONIT01 - Detail map 02




Crisis Information

 Flooded Area

 Flood trace

 Landslide

Built Up Grading

 Destroyed

 Damaged

 Possibly damaged


Facilities Grading


 Destroyed

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

 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: WorldView-3 © Vantor (2025), provided by European Space Imaging (acquired on 09/02/2025 at 15:40 UTC, resolution 0.3 m).  
Post-event image: [GeoEye-1] © Vantor (2025), provided by European Space Imaging (acquired on 30/10/2025 at 15:37 UTC, resolution 0.5 m).  
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The thematic layer has been derived from post-event satellite image by means of visual interpretation.  
The area not analyzed due to dense cloud cover cumulates all cloud covers from previous post-event products.

Map produced by GAF AG 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>



PROGRAMME OF THE  
EUROPEAN UNION



N

0

0.15

0.3

0.6 km

WGS 1984 UTM Zone 18N 1:10,000



Consequences within the AOI

			LATEST IMPACT	
			EO-based observation*	
Crisis information	Flood trace		Unit of measurement	
	Flooded area		ha	148.5
	Landslide		ha	202.0
	Maximum of all extents**		ha	3.3
				353.8

Estimated population		Inhabitants		No.	Destroyed	Damaged	Possibly damaged***	Total affected****	Total in AOI
Assets		Built-up		No.	53	68	238	359	7,528
		Residential Buildings		No.	0	0	0	0	5
		Wholesale and retail trade buildings		No.	0	0	0	0	1
		Public entertainment buildings		No.	0	0	0	0	1
		Museums and libraries		No.	0	0	0	0	1
		School, university and research buildings		No.	0	0	0	0	1
		Other non-residential buildings		No.	1	1	2	4	4
		Non-residential farm buildings		No.	0	0	0	0	9
		Hotel buildings		No.	0	0	0	0	10
		Other short-stay accommodation buildings		No.	0	0	0	0	1
		Transportation		km	0	0	0	0	0.7
		Airfield runways		km	0	0	0	0	5.8
		Primary Road		km	0	0.4	1.1	1.5	17.8
		Secondary Road		km	1.8	3.5	10.7	16.0	155.0
		Local Road		km	1.0	1.0	6.5	8.5	80.4
		Cart Track		km	10.9	0	0	10.9	11.0
		Facilities		ha	153.1			153.1	3,248.8
		Sport and recreation constructions		ha	132.7			132.7	5,544.7
		Land use		ha	41.3			41.3	506.8
		Shrub and/or herbaceous vegetation association		ha	23.2			23.2	165.9
		Forests		ha	3.5			3.5	366.3
		Heterogeneous agricultural areas							
		Inland wetlands							
		Other							

\* 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

