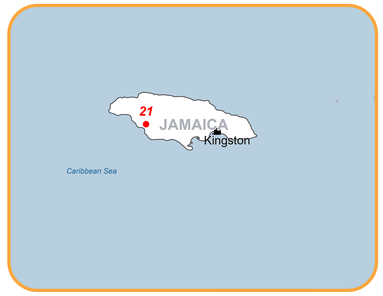
GLIDE number: TC-2025-000196-HTI
Int. Charter Act. ID: 996

GDACS ID: TC 1001230
Product version: 1

EMSR847 - AOI21
Tropical storm Melissa in the Caribbean
BLACK RIVER

## Situation as of 02/11/2025 15:46 UTC

Grading - Overview map 01




Flooded area
1,737.3 ha
Flood trace
17.8 ha

Potentially affected population
~ 350

Affected Built-up and Transportations

Built-Up
9,432 No.

Road
14.0 km

**Crisis Information**
- Flooded Area
- Flood trace

**Built Up Grading**
- Destroyed
- Damaged
- Possibly damaged

**Facilities Grading**
- Damaged
- Possibly damaged

**Transportation Grading**
- Road, Possibly damaged
- Main 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: WorldView-3 © Vantor (acquired on 09/02/2025 at 15:40 UTC, resolution 0.3 m).
Post-event image: GeoEye © Vantor (acquired on 02/11/2025 at 15:46 UTC, resolution 0.4 m).
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Map produced by e-GEOS released by e-GEOS on the 05/11/2025.

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
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N
0 0,5 1 2 km
WGS 1984 UTM Zone 18N 1:31.000

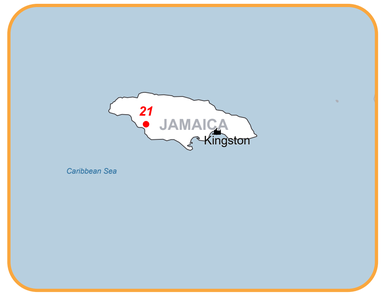
GLIDE number: TC-2025-000196-HTI
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GDACS ID: TC 1001230
Product version: 1

EMSR847 - AOI21
Tropical storm Melissa in the Caribbean
BLACK RIVER

## Situation as of 02/11/2025 15:46 UTC

Grading - Detail map 02




**Crisis Information**

- Flooded Area
- Flood trace

**Built Up Grading**

- Destroyed
- Damaged
- Possibly damaged

**Transportation Grading**

- Track, No visible damage

**General Information**

- Area of Interest

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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N
0 0,07 0,15 0,3 km
WGS 1984 UTM Zone 18N 1:6.000

PROGRAMME OF THE EUROPEAN UNION

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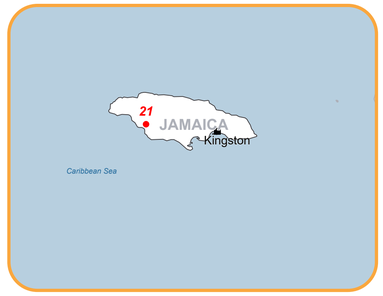
GLIDE number: TC-2025-000196-HTI
Int. Charter Act. ID: 996

GDACS ID: TC 1001230
Product version: 1

EMSR847 - AOI21
Tropical storm Melissa in the Caribbean
BLACK RIVER

## Situation as of 02/11/2025 15:46 UTC

Grading - 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
- Track, No visible damage

**General Information**

- Area of Interest

**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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Post-event image: GeoEye © Vantor (acquired on 02/11/2025 at 15:46 UTC, resolution 0.4 m).
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N
0 0,07 0,15 0,3 km
WGS 1984 UTM Zone 18N 1:6.000

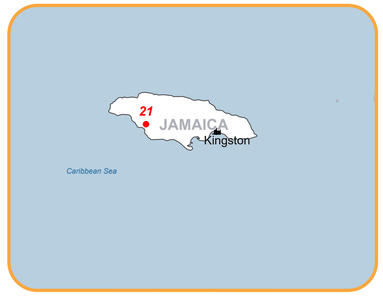
GLIDE number: TC-2025-000196-HTI
Int. Charter Act. ID: 996

GDACS ID: TC 1001230
Product version: 1

EMSR847 - AOI21
Tropical storm Melissa in the Caribbean
BLACK RIVER

## Situation as of 02/11/2025 15:46 UTC

Grading - Detail map 04




**Crisis Information**

- Flooded Area

**Built Up Grading**

- Destroyed
- Damaged
- Possibly damaged

**Transportation Grading**

- Road, Possibly damaged
- Track, No visible damage

**General Information**

- Area of Interest

**Hydrography**

- Lake, River

N

0 0,07 0,15 0,3 km

WGS 1984 UTM Zone 18N 1:6.000

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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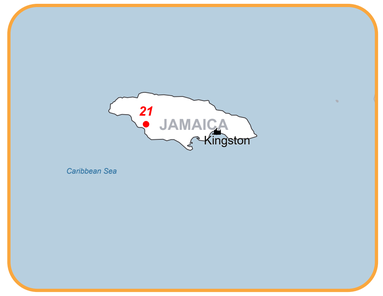
GLIDE number: TC-2025-000196-HTI
Int. Charter Act. ID: 996

GDACS ID: TC 1001230
Product version: 1

EMSR847 - AOI21
Tropical storm Melissa in the Caribbean
BLACK RIVER

## Situation as of 02/11/2025 15:46 UTC

Grading - Detail map 05




**Crisis Information**

- Flooded Area

**Built Up Grading**

- Destroyed
- Damaged
- Possibly damaged

**Transportation Grading**

- Road, Possibly damaged
- Track, No visible damage

**General Information**

- Area of Interest
- Not Analysed

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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Post-event image: GeoEye © Vantor (acquired on 02/11/2025 at 15:46 UTC, resolution 0.4 m).
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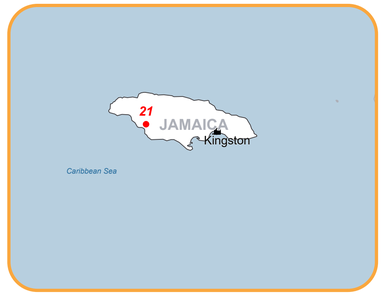
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Int. Charter Act. ID: 996

GDACS ID: TC 1001230
Product version: 1

EMSR847 - AOI21
Tropical storm Melissa in the Caribbean
BLACK RIVER

## Situation as of 02/11/2025 15:46 UTC

Grading - Detail map 06




**Crisis Information**
- Flooded Area

**Built Up Grading**
- Destroyed
- Damaged
- Possibly damaged

**Facilities Grading**
- Damaged

**Transportation Grading**
- Road, Possibly damaged
- Main 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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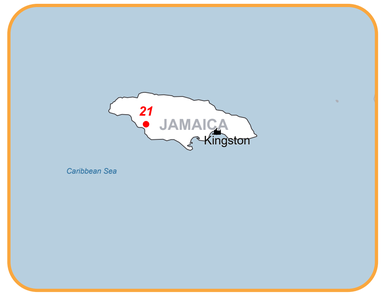
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Int. Charter Act. ID: 996

GDACS ID: TC 1001230
Product version: 1

EMSR847 - AOI21
Tropical storm Melissa in the Caribbean
BLACK RIVER

## Situation as of 02/11/2025 15:46 UTC

Grading - Detail map 07




**Crisis Information**
- Flooded Area

**Built Up Grading**
- Destroyed
- Damaged
- Possibly damaged

**Facilities Grading**
- Possibly damaged

**Transportation Grading**
- Road, Possibly damaged
- Main road, No visible damage
- Track, 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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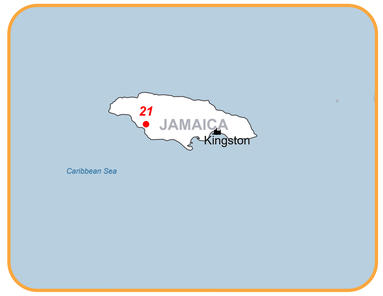
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GDACS ID: TC 1001230
Product version: 1

EMSR847 - AOI21
Tropical storm Melissa in the Caribbean
BLACK RIVER

## Situation as of 02/11/2025 15:46 UTC

Grading - Detail map 08




**Crisis Information**

- Flooded Area

**Built Up Grading**

- Destroyed
- Damaged
- Possibly damaged

**Transportation Grading**

- Road, Possibly damaged
- Main road, No visible damage
- Track, 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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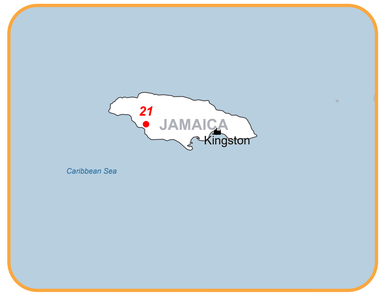
GLIDE number: TC-2025-000196-HTI
Int. Charter Act. ID: 996

GDACS ID: TC 1001230
Product version: 1

EMSR847 - AOI21
Tropical storm Melissa in the Caribbean
BLACK RIVER

## Situation as of 02/11/2025 15:46 UTC

Grading - Detail map 09




**Crisis Information**

- Flooded Area
- Flood trace

**Built Up Grading**

- Destroyed
- Damaged
- Possibly damaged

**Facilities Grading**

- Possibly damaged

**Transportation Grading**

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

**General Information**

- Area of Interest
- Not Analysed

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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N
0 0,07 0,15 0,3 km
WGS 1984 UTM Zone 18N 1:6.000

PROGRAMME OF THE EUROPEAN UNION

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EMSR847 AOI: 21 Black River Grading

**Consequences within the AOI**

| | | | Unit of measurement | LATEST IMPACT<br>EO-based observation* | |
|---|---|---|---|---|---|
| **Crisis information** | Flood trace | | ha | | 17,8 |
| | Flooded area | | ha | | 1.737,3 |
| | **Maximum of all extents**** | | **ha** | | **1.755,0** |

| | | | | Destroyed | Damaged | Possibly damaged*** | Total affected**** | Total in AOI |
|---|---|---|---|---|---|---|---|---|
| **Estimated population** | | **Inhabitants** | **No.** | | | | ~ 350 | ~ 20.000 |
| Assets | Built-up | Residential Buildings | No. | 1.516 | 4.943 | 2.878 | 9.337 | 11.593 |
| | | Institutional | No. | 0 | 0 | 1 | 1 | 2 |
| | | Police station | No. | 0 | 1 | 0 | 1 | 1 |
| | | Wholesale and retail trade buildings | No. | 0 | 28 | 8 | 36 | 36 |
| | | Industrial buildings | No. | 0 | 0 | 0 | 0 | 1 |
| | | School, university and research buildings | No. | 3 | 0 | 0 | 3 | 3 |
| | | Hospital or institutional care buildings | No. | 0 | 22 | 0 | 22 | 23 |
| | | Buildings used as places of worship and for religious activities | No. | 3 | 5 | 1 | 9 | 10 |
| | | Other buildings not elsewhere classified | No. | 3 | 5 | 12 | 20 | 20 |
| | | Hotel buildings | No. | 0 | 2 | 0 | 2 | 2 |
| | | Communication buildings, stations, terminals and associated buildings | No. | 1 | 0 | 0 | 1 | 1 |
| | Transportation | Primary Road | km | 0 | 0 | 0,1 | 0,1 | 36,9 |
| | | Secondary Road | km | 0 | 0 | 0 | 0 | 16,8 |
| | | Local Road | km | 0 | 0 | 3,9 | 3,9 | 228,2 |
| | | Cart Track | km | 0 | 0 | 10,0 | 10,0 | 89,3 |
| | Facilities | Constructions for mining or extraction | ha | 0 | 0 | 26,2 | 26,2 | 26,2 |
| | | Sport and recreation constructions | ha | 0 | 4,8 | 13,5 | 18,3 | 18,9 |
| | | Long-distance pipelines, communication and electricity lines | km | 0 | 0 | 0 | 0 | 7,2 |
| | Land use | Inland wetlands | ha | | | | 764,3 | 4.690,8 |
| | | Heterogeneous agricultural areas | ha | | | | 500,3 | 2.753,5 |
| | | Forests | ha | | | | 388,2 | 8.153,6 |
| | | Shrub and/or herbaceous vegetation association | ha | | | | 84,3 | 419,8 |
| | | Other | ha | | | | 17,7 | 1.119,6 |

* 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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Access to the portal

**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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