EMSR847 - AOI15
Storm in Jamaica
WEST JAMAICA

Situation as of 28/10/2025 23:09 UTC
Delineation - Overview map 01

15
JAMAICA
Caribbean Sea
Kingston

Flooded area
EO-based 3,371.8 ha
Model-based 5,156.3 ha

Potentially affected population
~ 2,100

Potentially Affected Built-up and Transportations

Road
76.6 km

Built-Up
14.9 ha

Estimated flood depth (m)
Below 0.50
0.50 to 1.00
1.00 to 2.00
2.00 to 4.00
Above 4.00

General Information
Area of Interest
Detail map
Image Footprint
Not Analysed

Administrative Boundaries
Region

Placenames
○ Placename

Built-Up Area
Residential
Non residential
School, university and research buildings
Hospital or institutional care buildings

Hydrography
Lake, River

Facilities
Long-distance pipelines or lines
Water or Aquatic infrastructure
Dam
Mining or extraction site
Power plant
Sport and recreation constructions
Water or Aquatic infrastructure
Dam

Transportation
Highway
Main road
Local road
Track
Railway
Airfield runway

Transportation
Airfield

Detail 02
Detail 03
Detail 04

Montego Bay
Negril
Black River
Santa Cruz
Savanna-la-Mar

N
0   2,25   4,5   9 km
WGS 1984 UTM Zone 18N   1:150.000

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EMSR847 - AOI15
Tropical storm Melissa in the Caribbean
WEST JAMAICA

Situation as of 28/10/2025 23:09 UTC
Delineation - Detail map 02

15

JAMAICA

Kingston

Caribbean Sea

Estimated flood depth (m)
Below 0.50
0.50 to 1.00
1.00 to 2.00
2.00 to 4.00

General Information
Area of Interest

Placenames
○ Placename

Built-Up Area
Residential
Non residential
School, university and research buildings

Hospital or institutional care buildings

Hydrography
Lake, River

Facilities
Long-distance pipelines or lines
Power plant
Sport and recreation constructions

Transportation
Main road
Local road
Track

New Holland
Middle Quarters
Baptist
Luana
Black River

RADARSAT 28/10/2025 23:09 UTC

N

0   0.45   0.9   1.8 km

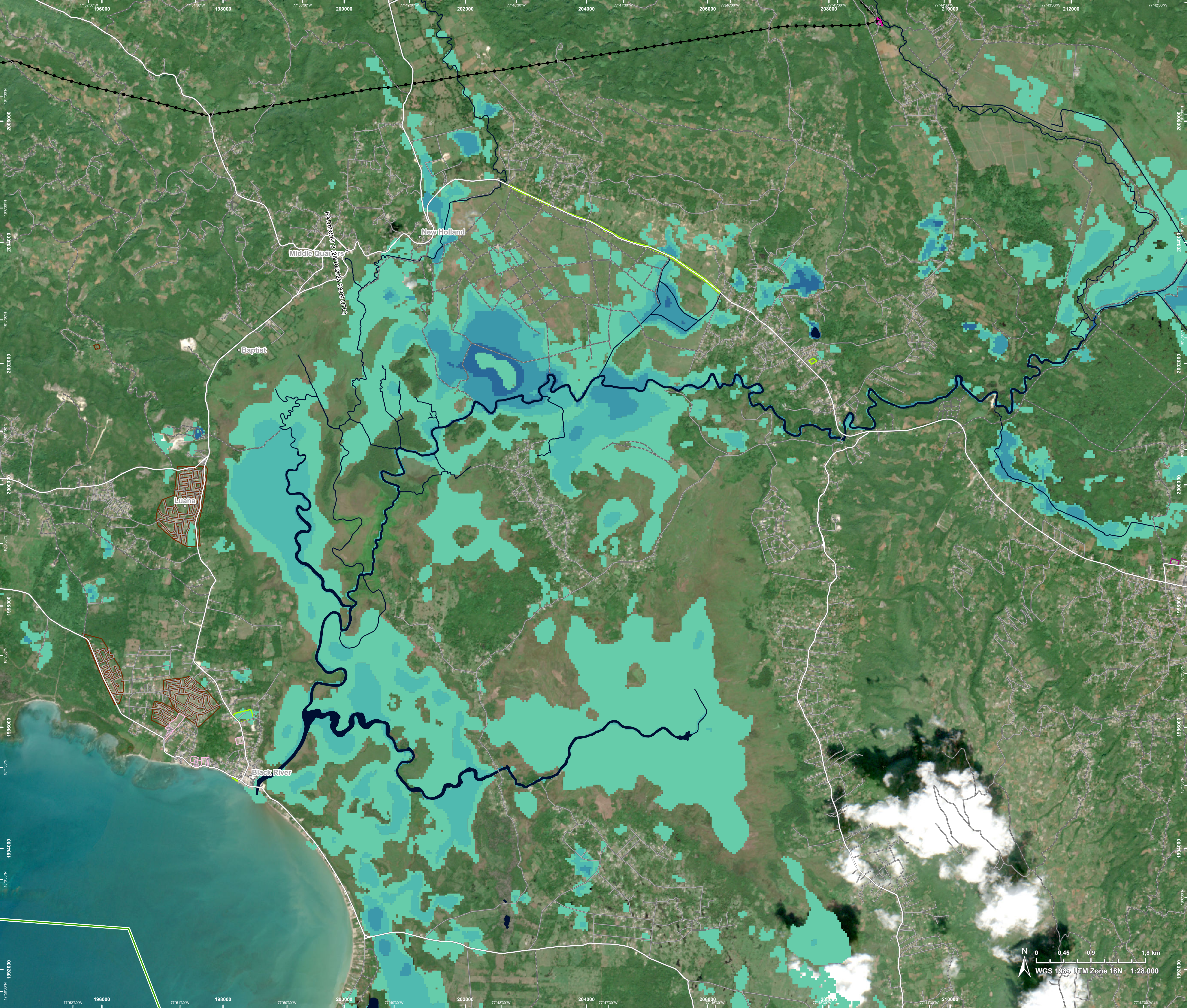WGS 1984 UTM Zone 18N   1:28.000

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Europe's eyes on Earth

EMSR847 - AOI15
Tropical storm Melissa in the Caribbean
WEST JAMAICA

Situation as of 28/10/2025 23:09 UTC
Delineation - Detail map 03

15
JAMAICA
Kingston
Caribbean Sea

Estimated flood depth (m)
- Below 0.50
- 0.50 to 1.00
- 1.00 to 2.00
- 2.00 to 4.00

General Information
- Area of Interest
- Image Footprint
- Not Analysed

Placenames
- Placename

Built-Up Area
- Residential
- Non residential

- School, university and research buildings
- Hospital or institutional care buildings

Facilities
- Long-distance pipelines or lines
- Power plant
- Sport and recreation constructions
- Water or Aquatic infrastructure

Transportation
- Main road
- Local road
- Track

WGS 1984 UTM Zone 18N   1:28 000
0   0.45   0.9   1.8 km

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EMSR847 - AOI15
Tropical storm Melissa in the Caribbean
WEST JAMAICA

Situation as of 28/10/2025 23:09 UTC
Delineation - Detail map 04

15
JAMAICA
Kingston
Caribbean Sea

Estimated flood depth (m)
- Below 0.50
- 0.50 to 1.00
- 1.00 to 2.00
- 2.00 to 4.00

General Information
Area of Interest

Administrative Boundaries
- – – Region

Placenames
- ◦ Placename

Built-Up Area
- Residential
- Non residential
- School, university and research buildings

Hydrography
- Lake, River

Facilities
- Long-distance pipelines or lines
- Water or Aquatic infrastructure
- Mining or extraction site
- Sport and recreation constructions
- Water or Aquatic infrastructure

Transportation
- Highway
- Main road
- Local road
- Track

Barrett Town
Mount Zion
Salt Marsh
Bounty Hall
Wakefield
Deeside
RADARSAT-2 (2025/10/28 23:09 UTC)

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: Sentinel-2 (2025) (acquired on 28/10/2024 at 15:55 UTC and 19/11/2024 at 15:45 UTC, resolution 10.0 m). This image is used as background image.
Post-event image: RADARSAT Constellation Mission Imagery © Government of Canada (2025) - RADARSAT is an official mark of the Canadian Space Agency (acquired on 28/10/2025 at 23:09 UTC, resolution 30.0 m) – RADARSAT is an official mark of the Canadian Space Agency.

Image provided by the International Charter (call ID 996), all rights reserved.
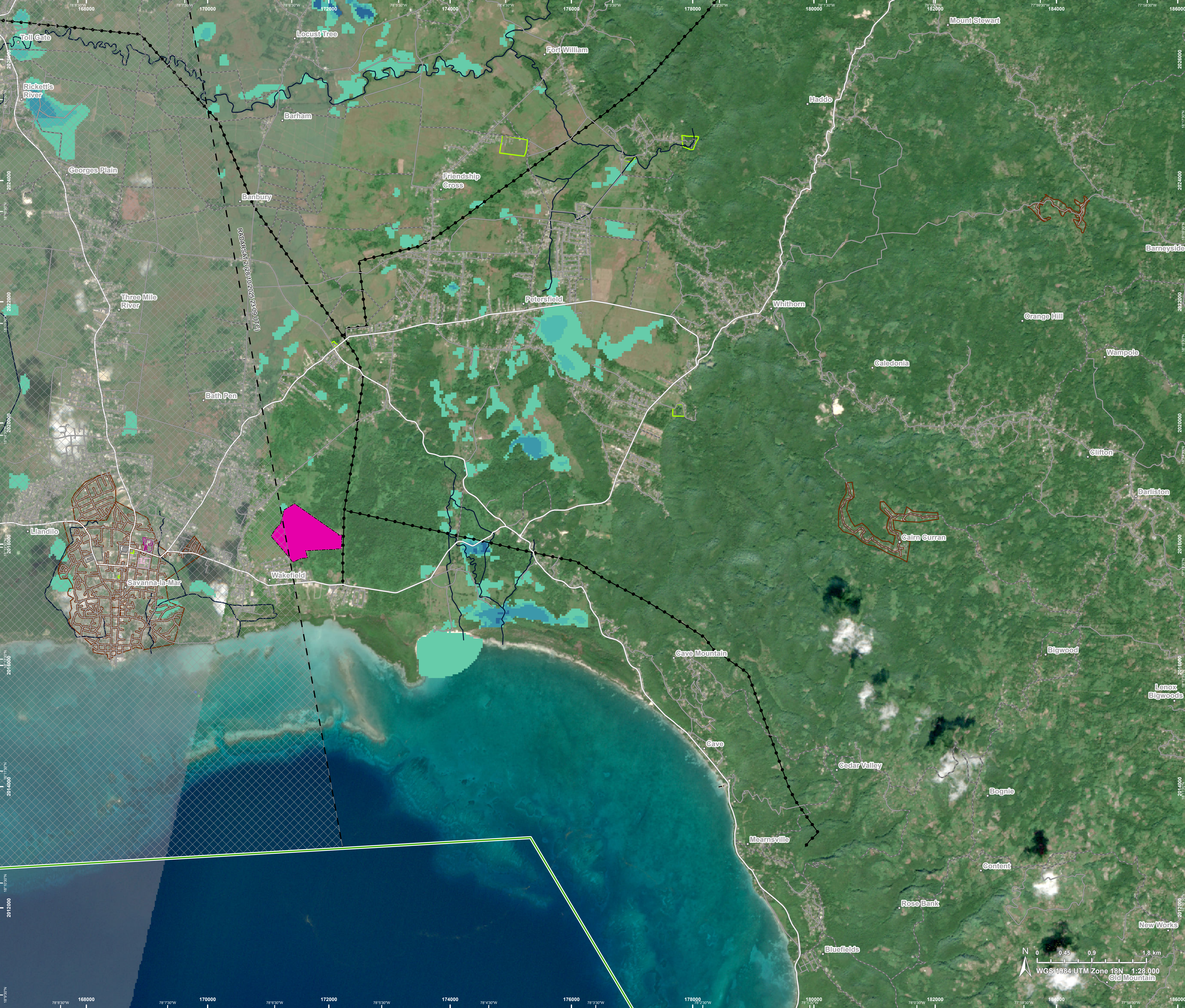
The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.
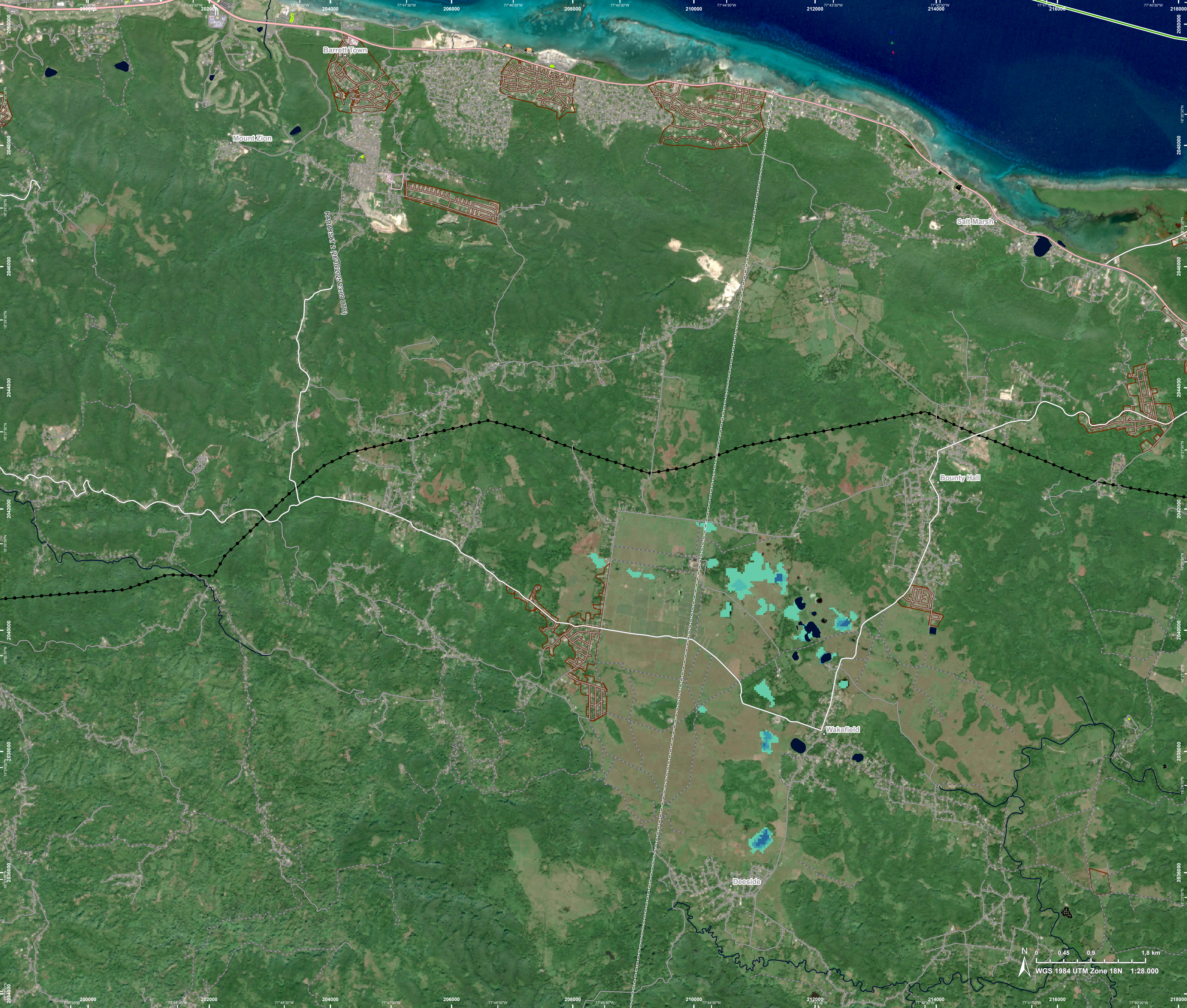
The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.
An extrapolated flood extent is generated by integrating observed flood areas with a Digital Terrain Model (DTM). The model's accuracy and spatial coverage depend on DTM resolution and quality, enabling the prediction of potentially flooded areas in regions with limited visibility in imagery, such as urban and forested zones.

Map produced by e-GEOS released by e-GEOS on the 29/10/2025.

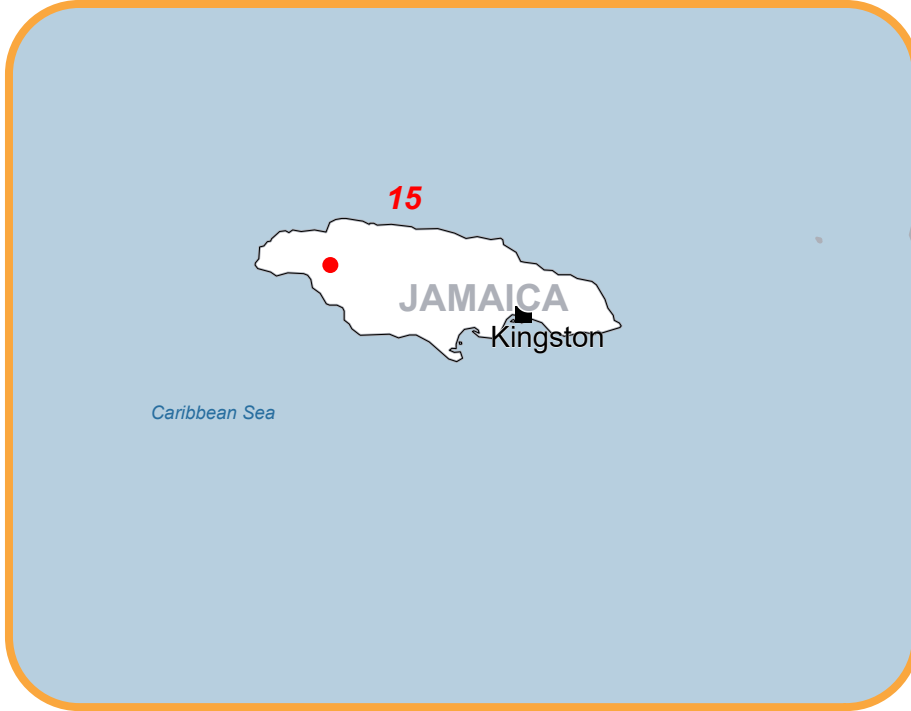Details on this activation and service conditions available through the QR code or at the link: https://mapping.emergency.copernicus.eu/activations/EMSR847

0 0.45 0.9 1.8 km
WGS 1984 UTM Zone 18N 1:28.000

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EMSR847 AOI: 15 Westjamaica Delineation

Consequences within the AOI

			Unit of measurement	LATEST IMPACT		
				EO-based observation*	**Model-based observation**	**EO- and Model-based observation**
Crisis information	Flooded area		ha	3.371,8	5.156,3	8.528,0
	Maximum of all extents**		ha	3.371,8	5.156,3	8.528,0

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	~ 600	~ 1.500	~ 2100,,	~ 640.000
Assets	Built-up	Residential Buildings	ha	2,2	12,6	14,9	4.930,5
		Office buildings	ha	0	0	0	64,5
		Wholesale and retail trade buildings	ha	0	0	0	8,3
		Industrial buildings	ha	0	0	0	134,5
		School, university and research buildings	ha	0	0	0	69,6
		Hospital or institutional care buildings	ha	0	0	0	3,6
		Cemetery	ha	0	0	0	24,6
	Transportation	Airfield runways	ha	0	0	0	166,4
		Airfield runways	km	0	0	0	10,3
		Highways	km	0	0	0	65,4
		Primary Road	km	0,7	1,6	2,3	345,9
		Secondary Road	km	0,4	2,0	2,4	451,5
		Local Road	km	9,2	19,6	28,7	4.544,0
		Cart Track	km	19,8	23,3	43,2	1.568,9
		Long-distance railways	km	0	0	0	88,6
	Facilities	Settling Basin	ha	0	0	0	60,5
		Breakwater	ha	0	0	0	1,2
		Dams	ha	0	0	0	0,1
		Constructions for mining or extraction	ha	4,6	1,9	6,5	111,4
		Power plant constructions	ha	0	0,1	0,1	74,7
		Sport and recreation constructions	ha	6,9	4,5	11,4	134,1
		Long-distance pipelines, communication and electricity lines	km	0,6	1,3	1,9	217,7
		Breakwater	km	0	0	0	0,6
		Dams	km	0	0	0	0,1
	Land use	Inland wetlands	ha	1.356,3	2.425,1	3.781,4	11.718,3
		Heterogeneous agricultural areas	ha	1.234,5	1.186,6	2.421,0	33.746,2
		Forests	ha	538,4	1.030,5	1.568,8	245.976,1
		Shrub and/or herbaceous vegetation association	ha	181,4	317,4	498,8	25.160,0
		Other	ha	60,3	104,8	165,1	29.185,0
		Open spaces with little or no vegetation	ha	0	0	0	15,4

* Corresponds to the water observed in the most recent satellite imagery, excluding permanent water
** Corresponds to the geographic union (and NOT the sum) of all Crisis Information extents.

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.

Access to 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.

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