



EMSR847 - AOI02
Storm in Jamaica
PORTMORE

Pre-event situation
Reference - Overview map 01





Population
~ 370,000

Built-up and Transports



Road
1,447.5 km



Built-Up
4,140.7 ha



Railway
24.8 km

General Information

- Area of Interest

Placenames

- Placename

Built-Up Area

- Residential
- Non residential
- Fire station
- School, university and research buildings
- Hospital or institutional care buildings

Hydrography

- Lake, River

Facilities

- Long-distance pipelines or lines
- Mining or extraction site
- Power plant
- Water or Aquatic infrastructure
- Dam

Transportation

- Bridge and elevated highway
- Highway
- Main road
- Railway

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. Copernicus EMS Rapid Mapping is requested to provide flood extent and damage assessment emergency mapping.

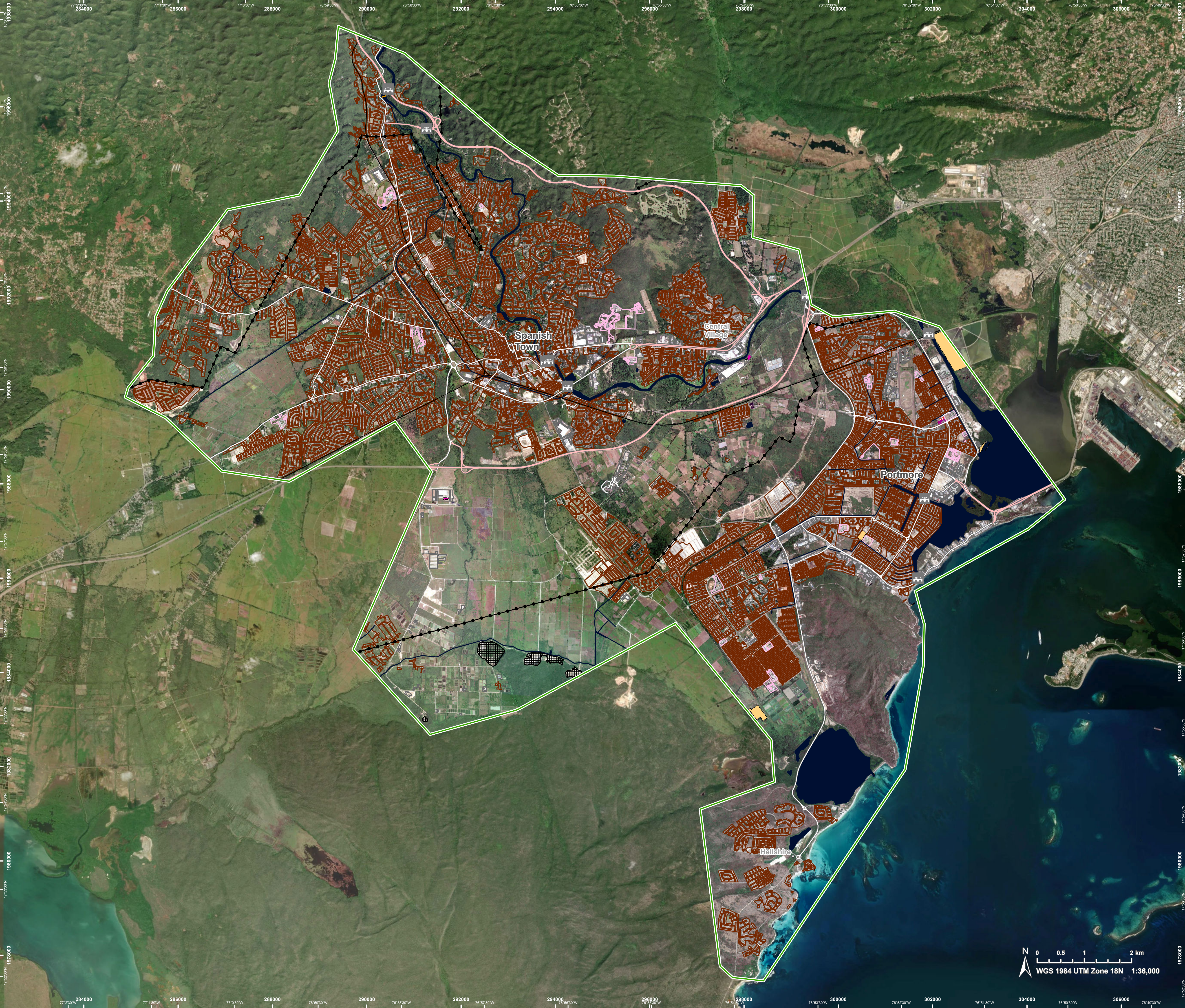
Data sources and analysis: Pre-event image: ESRI World Imagery © DigitalGlobe (acquired on 09/01/2025, resolution 0.6 m).

This image is used as background image.
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The present map shows basic topographic features derived from public datasets, refined by means of visual interpretation of pre-event imagery.

Map produced by GAF AG released by e-GEOS on the 26/10/2025.

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



Exposure within the AOI

		Unit of measurement		Total in AOI
Estimated population		Inhabitants	No.	~ 370,000
	Built-up	Residential Buildings	ha	3,748.3
		Office buildings	ha	40.6
		Fire station	ha	0.5
		Industrial buildings	ha	157.5
		School, university and research buildings	ha	96.8
		Hospital or institutional care buildings	ha	0.7
		Other non-residential buildings	ha	94.8
		Other buildings not elsewhere classified	ha	1.2
		Cemetery	ha	0.1
	Transportation	Highways	km	66.8
		Primary Road	km	44.9
		Secondary Road	km	39.5
		Local Road	km	1,076.6
		Cart Track	km	219.7
		Long-distance railways	km	24.8
		Bridges and elevated highways	No.	9
	Facilities	Settling Basin	ha	32.5
		Breakwater	ha	0.4
		Dams	ha	1.4
		Constructions for mining or extraction	ha	38.6
		Power plant constructions	ha	1.1
		Long-distance pipelines, communication and electricity lines	km	32.2
	Land use	Heterogeneous agricultural areas	ha	2,244.1
		Forests	ha	4,067.7
		Shrub and/or herbaceous vegetation association	ha	3,590.2
		Inland wetlands	ha	562.8
		Other	ha	6,868.6

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

