

EMS778 - AOI09
Storm in Honduras
CHOLUTECA

Situation as of 19/11/2024 23:21 UTC
Delineation - Overview map 01



Flooded area
1,203.3 ha

Potentially affected
population ~ 150

Potentially Affected Built-up and Transportations

Built-Up
0.6 ha

Road
2.6 km

Estimated flood depth (m)	Built-Up Area
Below 0.50	Residential
0.50 - 1.00	Non residential
1.00 - 2.00	School, university and research buildings
2.00 - 4.00	Hospital or institutional care buildings
	Military
	Hydrography
	Lake, River
	Facilities
	Long-distance pipelines or lines
	Power plant
	Sport and recreation constructions
	Water or Aquatic infrastructure
	Transportation
	Highway
	Main road
	Local road
	Track
	Airfield runway

Event: On the 16 November 2024 at 23:30 Tropical Storm Sara hit Honduras. Specifically, floods and mass movements have been reported to affect the country. Copernicus EMS Rapid Mapping is requested to provide initial rough estimation emergency mapping.

Data sources and analysis: Pre-event image: Sentinel-2A/B (2024) (acquired on 24/07/2024 at 16:29 UTC, resolution 10.0 m). This image is used as background image. Post-event image: COSMO-SkyMed SG © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 19/11/2024 at 23:21 UTC, resolution 5.0 m). All images are provided under COPERNICUS by the European Union and ESA, 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 flood depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

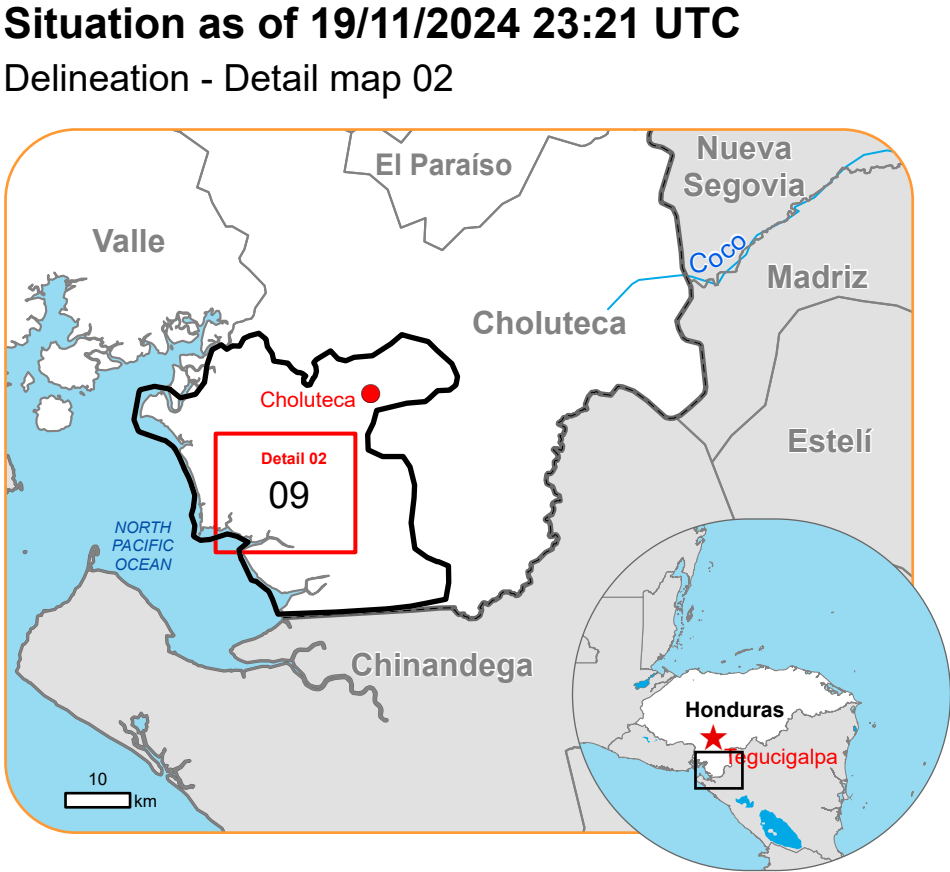
Map produced by GAF AG released by e-GEOS on the 20/11/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMS778>





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- Estimated flood depth (m)**

 - Below 0.50
 - 0.50 - 1.00
 - 1.00 - 2.00
 - 2.00 - 4.00

General Information

 - Area of Interest
 - Image Footprint

Administrative Boundaries

 - Province

Built-Up Area

 - Residential
 - Non residential
 - Hospital or institutional care buildings
- Hydrography**

 - Lake, River

Facilities

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

Transportation

 - Main road
 - Local road
 - Track
 - Airfield runway
 - Airfield

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Consequences within the AOI		Unit of measurement	Affected	Total in AOI
Flooded area		ha		1,203.3
Estimated population	Number of inhabitants		~ 150	~ 220,000
Built-up	Residential Buildings	ha	0.6	1,353.2
	Office buildings	ha	0	12.1
	Wholesale and retail trade buildings	ha	0	0.3
	Industrial buildings	ha	0	757.8
	School, university and research buildings	ha	0	99.7
	Hospital or institutional care buildings	ha	0	10.2
	Military	ha	0	1.3
	Cemetery	ha	0	29.8
Transportation	Airfield runways	ha	0	91.7
	Airfield runways	km	0	4.1
	Highways	km	0	46.2
	Primary Road	km	0	54.5
	Secondary Road	km	0	35.9
	Local Road	km	0.4	1,104.9
	Cart Track	km	2.3	664.4
Facilities	Power plant constructions	ha	0	837.8
	Sport and recreation constructions	ha	0	39.4
	Other civil engineering works not elsewhere classified	ha	0	9,205.7
	Long-distance pipelines, communication and electricity lines	km	0	78.5
Land use	Heterogeneous agricultural areas	ha	1,085.6	75,266.7
	Inland wetlands	ha	96.2	29,195.0
	Shrub and/or herbaceous vegetation association	ha	18.3	3,192.9
	Forests	ha	2.6	7,923.3
	Other	ha	0.6	20,155.0

Disclaimer:

Full disclaimer and other helpful information available in the online manual:
<https://emergency.copernicus.eu/mapping/ems/online-manual-rapid-mapping-products>
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Data Access:

All data displayed on the map(s), as well as the Physiography and Land Use - Land Cover layers, 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.

Data Sources:

Base Vector Layers: OpenStreetMap © OpenStreetMap contributors (2024), Wikimapia.org, GeoNames 2015, Global Administrative Areas (2012), refined by the producer, Globe Land 30 (2010), Copernicus Global Land Service: Land Cover (2019).
 Inset Maps: JRC 2013, Natural Earth 2012, GeoNames 2015.
 FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus,2020).



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