



EMSR805 - AOI01
Storm in Mexico
ACAPULCO

Situation as of 21/06/2025 00:46 UTC

Delineation MONIT01 - Overview map 01



Flooded area
560.4 ha



Potentially affected
population
~ 20

Potentially Affected Transportations



Road
2.1 km

Estimated flood depth (m)

- Below 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- 2.00 - 4.00
- 4.00 - 6.00

General Information

- Area of Interest

Administrative Boundaries

- Province

Placenames

- Placename

Built-Up Area

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

Military

Hydrography

- Lake, River

Facilities

- Long-distance pipelines or lines
- Local pipelines or lines
- Sport and recreation constructions
- Dump Site
- Water or Aquatic infrastructure

Transportation

- Highway
- Main road
- Airfield runway
- Airfield
- Helipad

Full transportation features available in the BLP

Event: On June 19, 2025, at 12:00, Tropical Cyclone Erick-25 is predicted to affect the state of Guerrero in Mexico. The most affected municipalities are those located in the coastal area of the state and those located in the Sierra Madre del Sur Mountain range, including the Costa Chica, Costa Grande, Acapulco, Montana, and Centro regions. The event is forecast and with damage expected to affect buildings, infrastructure, and others. Copernicus EMS Rapid Mapping is requested to provide an initial rough estimation, flood extent, and damage assessment emergency mapping.

Data sources and analysis: Pre-event image: Sentinel-2A/B (2025) (acquired on 05/05/2025 at 16:59 UTC, resolution 10.0 m).
Post-event image: Sentinel-1A/B (2025) (acquired on 21/06/2025 at 00:46 UTC, resolution 20.0 m).
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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.

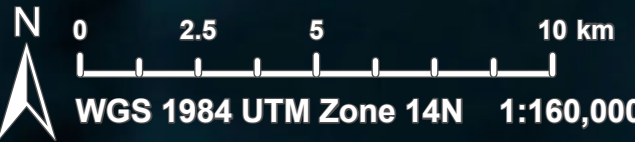
The flood depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

Map produced by Planetek Hellas released by SERTIT on the 21/06/2025.

Details on this activation and service conditions available through the QR code or at the link: <https://mapping.emergency.copernicus.eu/activations/EMSR805>



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Consequences within the AOI				
	Unit of measurement	Affected	Total in AOI	
Flooded area	ha		560.4	
Estimated population	Number of inhabitants	~ 20	~ 880,000	
Built-up	Residential Buildings	ha	0	5,408.6
	Office buildings	ha	0	15.3
	Wholesale and retail trade buildings	ha	0	1.7
	Industrial buildings	ha	0	32.0
	School, university and research buildings	ha	0	178.9
	Hospital or institutional care buildings	ha	0	13.8
	Military	ha	0	0
	Cemetery	ha	0	56.5
Transportation	Airfield runways	ha	0	494.6
	Helipad	ha	0	0.1
	Airfield runways	km	0	7.0
	Highways	km	0	248.7
	Primary Road	km	0	250.4
	Secondary Road	km	0	84.8
	Local Road	km	0	3,186.2
	Cart Track	km	2.1	957.4
Facilities	Settling Basin	ha	0	2.0
	Sport and recreation constructions	ha	0	198.3
	Other civil engineering works not elsewhere classified	ha	0	0.4
	Long-distance pipelines, communication and electricity lines	km	0	287.1
	Local pipelines and cables	km	0	0.3
Land use	Inland wetlands	ha	364.7	4,419.6
	Forests	ha	115.1	124,937.9
	Heterogeneous agricultural areas	ha	49.6	8,201.9
	Shrub and/or herbaceous vegetation association	ha	29.0	21,626.4
	Other	ha	1.7	35,952.6
	Open spaces with little or no vegetation	ha	0.1	304.5

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.

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 (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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