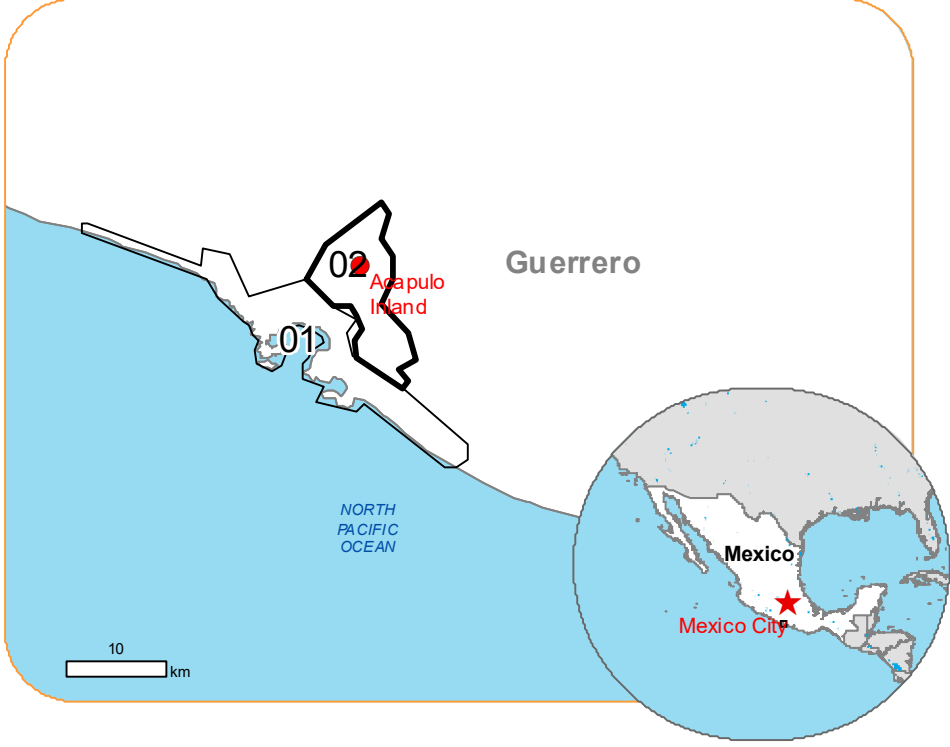



**Situation as of 29/10/2023 17:21 UTC**  
Grading MONIT01 - Overview map 01



 Flooded area 354.4 ha  
Flood trace 869.3 ha  Potentially affected population ~ 180,000

Affected Built-up and Transportations

 Built-Up 2,636.7 ha  Road 51.5 km

Crisis Information	General Information
 Flooded Area	 Area of Interest
 Flood trace	 Detail map
<b>Damage Grading</b>	<b>Placenames</b>
 Destroyed	 Placename
 Damaged	<b>Hydrography</b>
 Possibly damaged	 River
<b>Facilities Grading</b>	 Stream
 Destroyed	 Lake
 Damaged	 River
 Possibly damaged	 River Bank
<b>Transportation Grading</b>	
 Road, Damaged	
 Road, Possibly damaged	

**Event:** On 25 October around 6.25 UTC, TC OTIS (Cat. 5 Hurricane) made landfall over the area of the coastal City of Acapulco (central Guerrero State, southern Mexico) with maximum sustained winds of 270 km/h. OTIS-23 caused floods and landslides that resulted in evacuations and severe damage. As of 26 October, 34,522 evacuated families in 631 temporary shelters across the affected area according to WHO PAHO and national authorities. Copernicus EMS Rapid Mapping is requested to provide damage assessment emergency mapping.

**Data sources and analysis:** Pre-event image: ESRI World Imagery © DigitalGlobe (acquired on 06/01/2023, resolution 0.6 m). Post-event images: Pléiades Neo © CNES (2023), distributed by Airbus DS (acquired on 29/10/2023 at 17:21 UTC, resolution 0.3 m). This image is used as background image. All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015, Global Administrative Areas (2012), refined by the producer. Copernicus Global Land Service: Land Cover (2019). Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2015.

Population data: GHS Population Grid © European Commission, 2023 [https://ghsl.jrc.ec.europa.eu/ghs\\_pop2023.php](https://ghsl.jrc.ec.europa.eu/ghs_pop2023.php) Digital Elevation Model: COP-DEM-EEA-10-R product © DLR e.V. (2014-2018) and © Airbus Defence and Space GmbH (2020) provided under COPERNICUS by the European Union and ESA, all rights reserved.

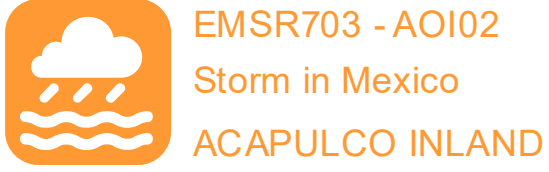
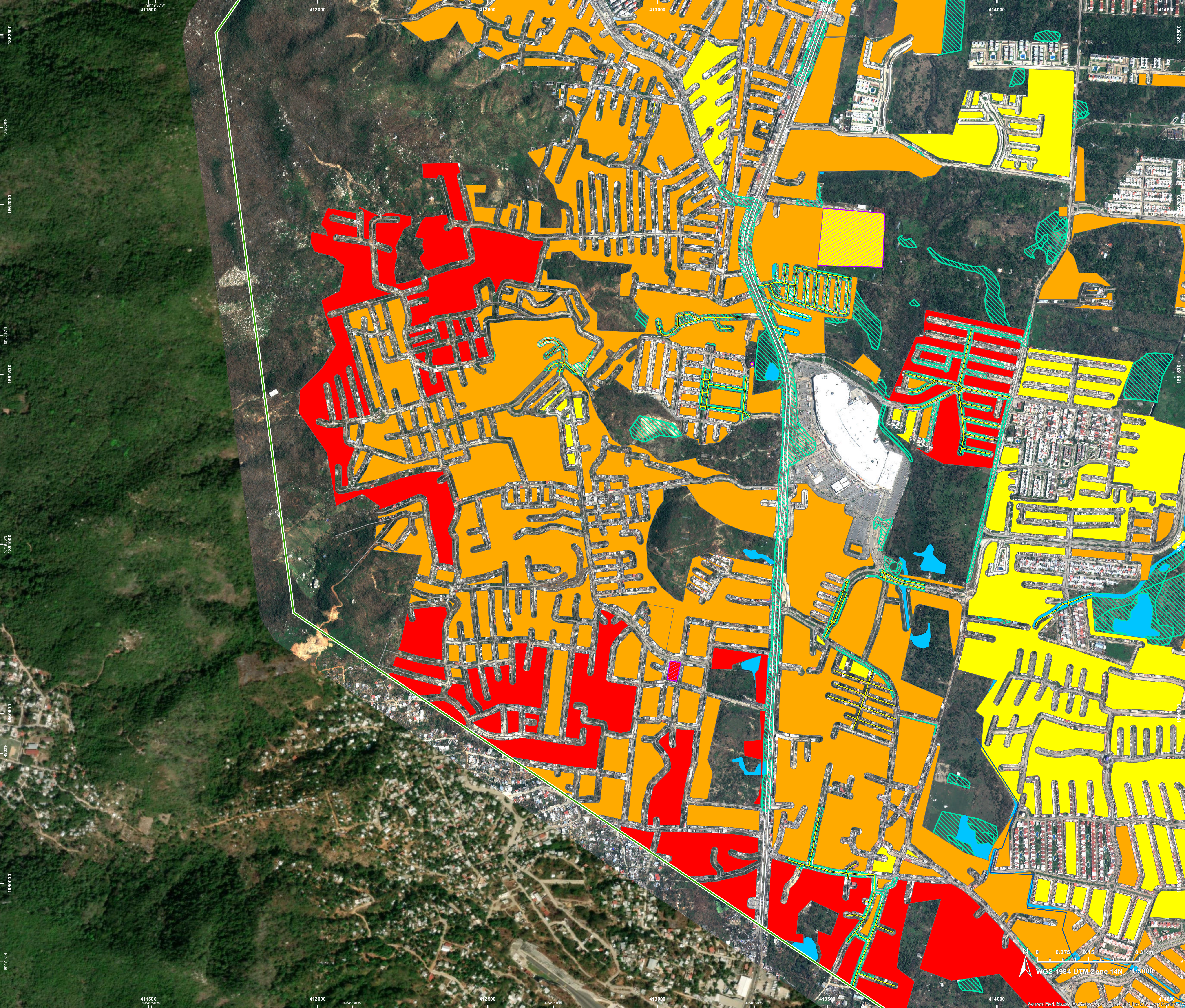
The thematic layer has been derived from post-event satellite image by means of visual interpretation. The current grading analysis cumulates all analysis from previous post-event products.

Map produced by GAFAG released by e-GEOS on the 31/10/2023.

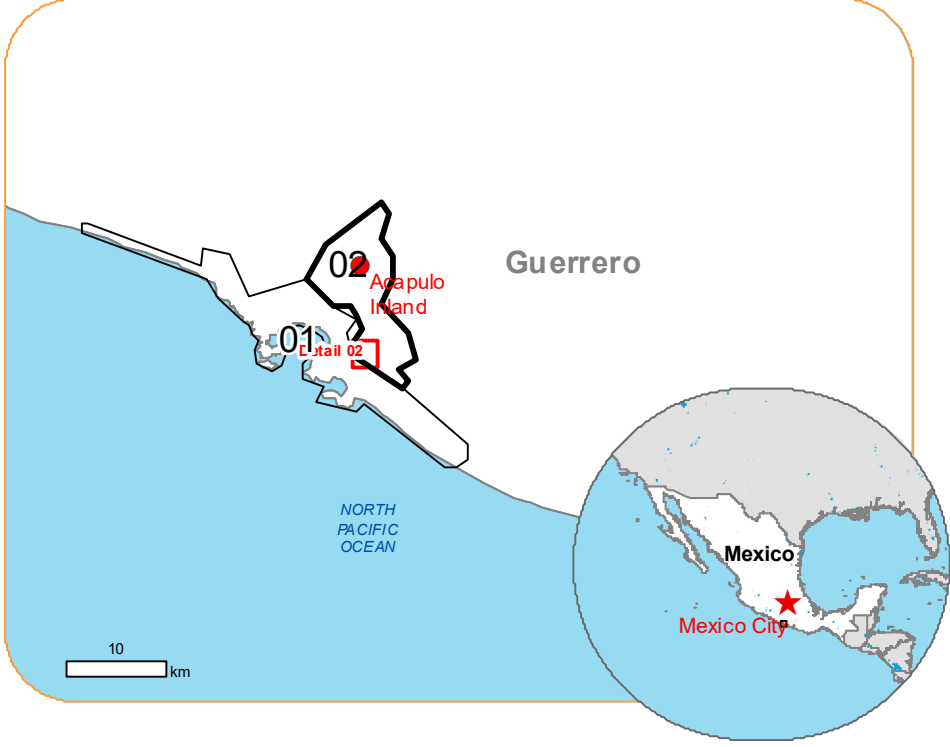
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR703>







**Situation as of 29/10/2023 17:21 UTC**  
Grading MONIT01 - Detail map 02



Flooded area 5.7 ha  
(~ 1.5% of total affected)  
Flood trace 45.1 ha  
(~ 5% of total affected)

Potentially affected population  
~ 7500  
(~ 4% of total affected)

Affected Built-up and Transportations

Built-Up  
206.9 ha  
(~ 7% of total affected)

Road  
7.1 km  
(~ 14% of total affected)

**Crisis Information**

- Flooded Area
- Flood trace

**Damage Grading**

- Destroyed
- Damaged
- Possibly damaged

**Facilities Grading**

- Destroyed
- Possibly damaged

**Transportation Grading**

- Main road, No visible damage
- Local road, No visible damage
- Road, Damaged
- Road, Possibly damaged
- Highway, No visible damage

**General Information**

- Area of Interest

**Hydrography**

- River
- River

**Event:** On 25 October around 6.25 UTC, TC OTIS (Cat. 5 Hurricane) made landfall over the area of the coastal City of Acapulco (central Guerrero State, southern Mexico) with maximum sustained winds of 270 km/h. OTIS-23 caused floods and landslides that resulted in evacuations and severe damage. As of 26 October, 34,522 evacuated families in 631 temporary shelters across the affected area according to WHO PAHO and national authorities. Copernicus EMS Rapid Mapping is requested to provide damage assessment emergency mapping.

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Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2015.

Population data: GHS Population Grid © European Commission, 2023  
[https://ghsl.jrc.ec.europa.eu/ghs\\_pop2023.php](https://ghsl.jrc.ec.europa.eu/ghs_pop2023.php)  
Digital Elevation Model: COP-DEM-EEA-10-R product © DLR e.V. (2014-2018) and © Airbus Defence and Space GmbH (2020) provided under COPERNICUS by the European Union and ESA, all rights reserved.

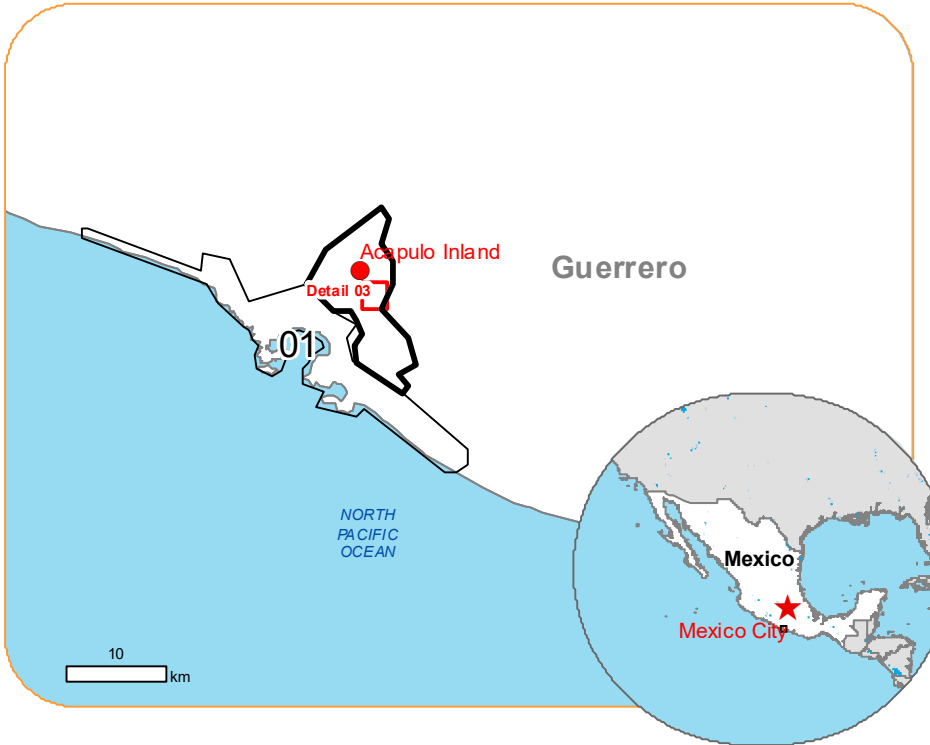
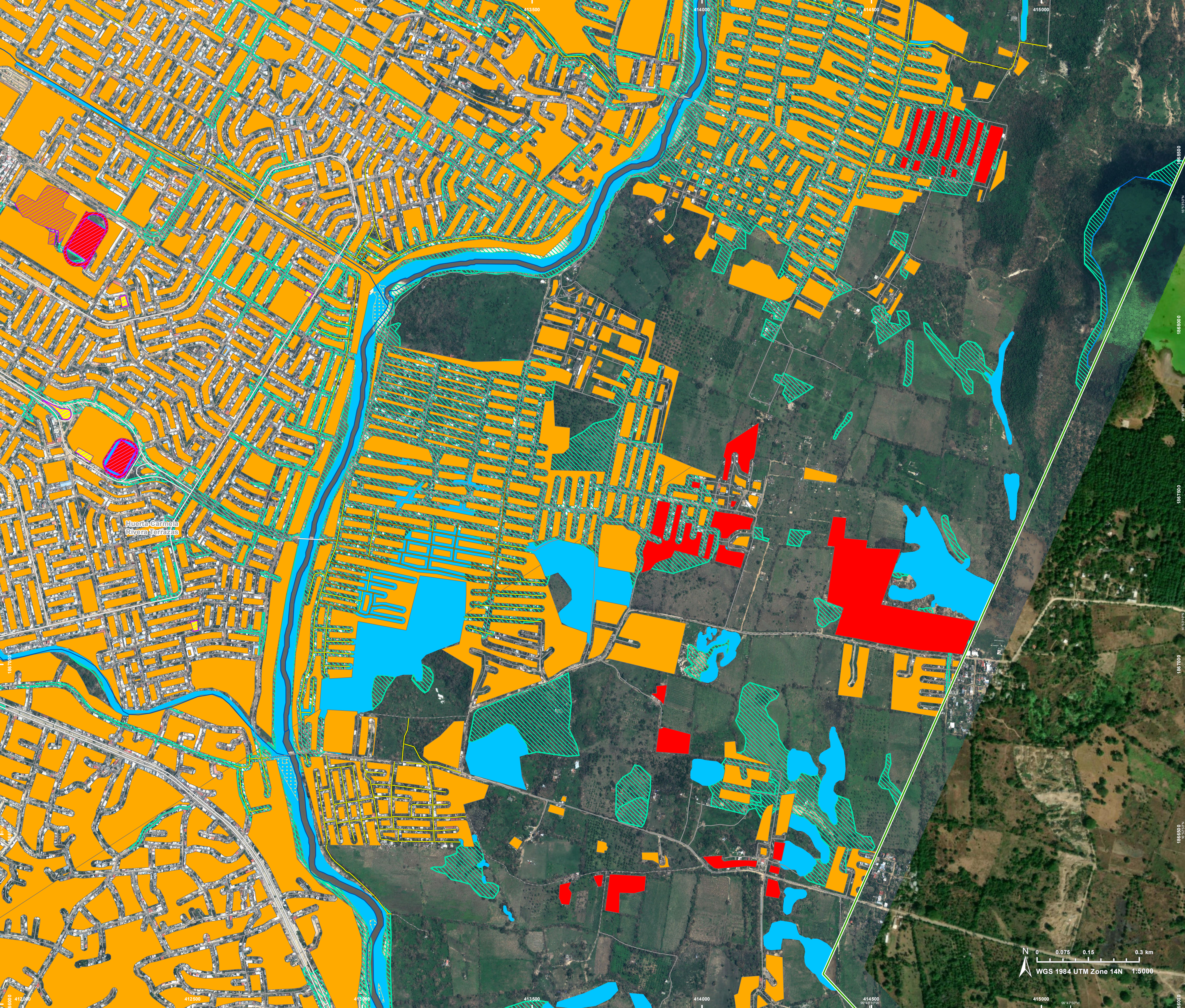
The thematic layer has been derived from post-event satellite image using a semi-automatic approach OR by means of visual interpretation. The current grading analysis cumulates all analysis from previous post-event products.

Map produced by GAFAG released by e-GEOS on the 31/10/2023.

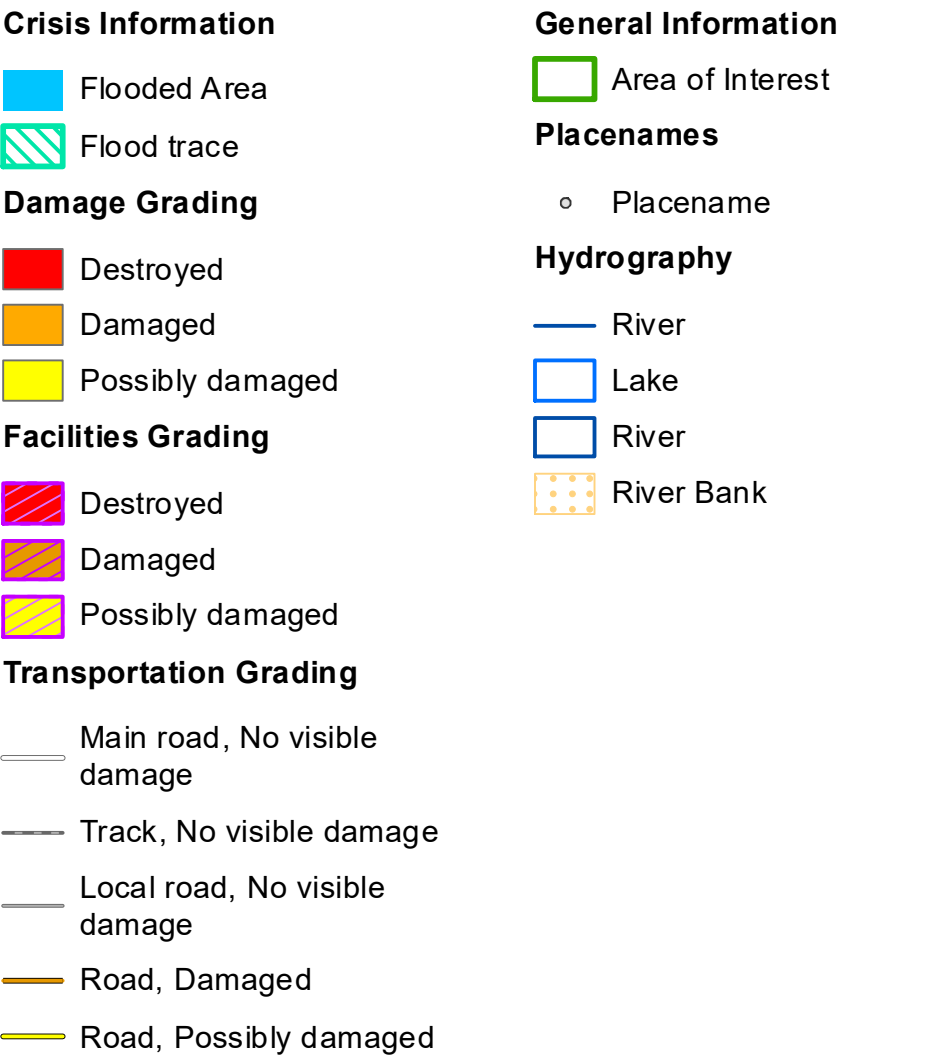
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Affected Built-up and Transportations



**Event:** On 25 October around 6.25 UTC, TC OTIS (Cat. 5 Hurricane) made landfall over the area of the coastal City of Acapulco (central Guerrero State, southern Mexico) with maximum sustained winds of 270 km/h. OTIS-23 caused floods and landslides that resulted in evacuations and severe damage. As of 26 October, 34,522 evacuated families in 631 temporary shelters across the affected area according to WHO PAHO and national authorities. Copernicus EMS Rapid Mapping is requested to provide damage assessment emergency mapping.

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Consequences within the AOI							
		Unit of measurement	Destroyed	Damaged	Possibly damage*	Total affected**	Total in AOI
Flood trace		ha					869.3
Flooded area		ha					354.4
Estimated population	Number of inhabitants					~ 180,000	~ 370,000
Built-up	Residential Buildings	ha	279.4	2,159.8	155.7	2,594.9	2,704.3
	Industrial buildings	ha	0	8.2	0	8.2	8.2
	Industrial buildings and warehouses	ha	0	18.1	0	18.1	18.1
	Public entertainment, education, hospital or institutional care building	ha	0	10.7	0	10.7	10.7
	School, university and research buildings	ha	0	2.3	0	2.3	2.3
	Other non-residential buildings	ha	0	0	0	0	7.5
	Other buildings not elsewhere classified	ha	0	2.5	0	2.5	2.5
Transportation	Highways	km	0	0	0	0	35.6
	Primary Road	km	0	0	0.6	0.6	44.7
	Secondary Road	km	0	0	0	0	17.5
	Local Road	km	0	9.7	37.3	47.0	1,026.4
	Cart Track	km	0	1.6	2.3	3.9	55.6
Facilities	Settling Basin	ha	0	0	0.01	0.01	0.01
	Power plant constructions	ha	0	0	3.1	3.1	3.1
	Sport and recreation constructions	ha	1.9	6.3	12.2	20.4	20.8
	Long-distance pipelines, communication and electricity lines	km	0	0	0	0	68.7
	Local pipelines and cables	km	0	0	0	0	0.3
Land use	Other	ha				403.5	4,311.5
	Forests	ha				258.8	2,922.9
	Shrub and/or herbaceous vegetation association	ha				191.0	943.5
	Heterogeneous agricultural areas	ha				172.7	541.5
* Presence of damage proxies and proximity with destroyed/damaged asset							
** Sum of all damage classes							

**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



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