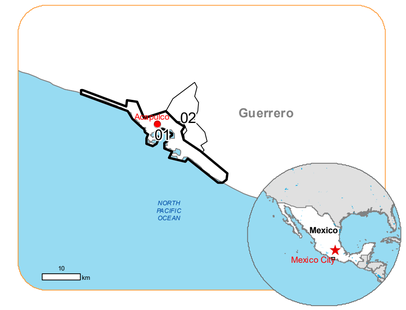
GLIDE number: TC-2023-000209-MEX
Int. Charter Act. ID: 847

GDACS ID: TC 1001028
Product version: 2

EMSR703 - AOI01
Tropical Cyclone in Mexico
ACAPULCO COAST

Situation as of 28/10/2023 17:23 UTC

Grading MONIT01 - Overview map 01



Flooded area 589.1 ha
Landslide 11.4 ha

Potentially affected population
~ 380,000

Affected Built-up and Transportations

Road
28.1 km

Bridge
8 No.

Built-up
4750.2 ha

Crisis Information
- Flooded Area
- Mass Movement

Built Up Grading
- Destroyed
- Damaged
- Possibly damaged

Transportation Grading
- Bridge and elevated highway, Damaged
- Bridge and elevated highway, Destroyed
- Bridge and elevated highway, Possibly damaged
- Main road, No visible damage
- Local road, No visible damage
- Road, Possibly damaged
- Highway, No visible damage

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

Administrative boundaries
- Province

Placenames
- Placename

Hydrography
- Stream
- Lake
- Land Subject to Inundation
- River
- Stream

Facilities
- Sport and recreation constructions

Transportation
- Airfield
- Helipad

Event:
On 25 October around 06:25 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.

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 0.5 m).
Post-event images: WorldView-3 © Maxar Technologies, Inc. (2023), (acquired on 28/10/2023 at 17:21 UTC, 17:22 UTC and 17:23 UTC, resolution 0.5 m).
Pléiades Neo © CNES (2023), distributed by Airbus DS (acquired on 26/10/2023 at 17:13 UTC, resolution 0.3 m).

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015. Global Administrative Areas (2012), refined by the producer. Globe Land 30 (2010).
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
Digital Elevation Model:
FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus,2020).

Map produced by SERTIT released by e-GEOS on the 01/11/2023.

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

PROGRAMME OF THE EUROPEAN UNION

N
0 0.75 1.5 3 km
WGS 1984 UTM Zone 14N 1:60000

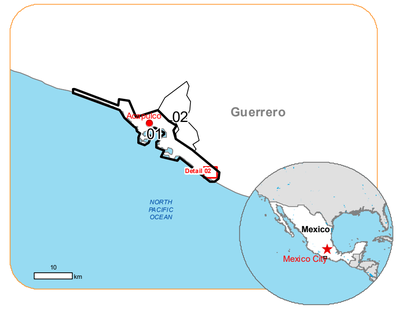
GLIDE number: TC-2023-000209-MEX
Int. Charter Act. ID: 847

GDACS ID: TC 1001028
Product version: 2

EMSR703 - AOI01
Tropical Cyclone in Mexico
ACAPULCO COAST

Situation as of 28/10/2023 17:23 UTC

Grading MONIT01 - Detail map 02



Flooded area 263 ha
(45 % of total affected)

Potentially affected population
~ 3,400
(0.9 % of total affected)

Affected Built-up and Transportations

Road
3 km
(11 % of total affected)

Built-up
111.8 ha
(2.4 % of total affected)

Crisis Information
- Flooded Area

Built Up Grading
- Destroyed
- Damaged
- Possibly damaged

Transportation Grading
- Main road, No visible damage
- Track, No visible damage
- Airfield runway, No visible damage
- Local road, No visible damage
- Road, Possibly damaged

General Information
- Area of Interest

Hydrography
- Stream
- Lake
- Land Subject to Inundation

Facilities
- Sport and recreation constructions

Transportation
- Airfield
- Helipad

Event:
On 25 October around 06:25 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.

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 0.5 m).
Post-event images: WorldView-3 © Maxar Technologies, Inc. (2023), (acquired on 28/10/2023 at 17:21 UTC, 17:22 UTC and 17:23 UTC, resolution 0.5 m).
Pléiades Neo © CNES (2023), distributed by Airbus DS (acquired on 26/10/2023 at 17:13 UTC, resolution 0.3 m).

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015. Global Administrative Areas (2012), refined by the producer. Globe Land 30 (2010).
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
Digital Elevation Model:
FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus,2020).

Map produced by SERTIT released by e-GEOS on the 01/11/2023.

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

PROGRAMME OF THE EUROPEAN UNION

Copernicus
Europe's eyes on Earth

N
0 0.075 0.15 0.3 km
WGS 1984 UTM Zone 14N 1:5000

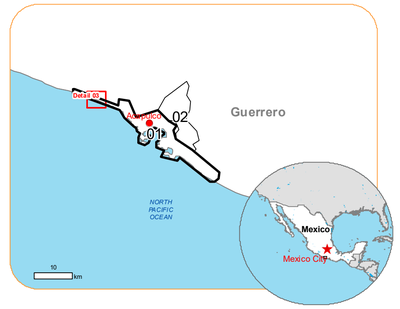
GLIDE number: TC-2023-000209-MEX
Int. Charter Act. ID: 847

GDACS ID: TC 1001028
Product version: 2

EMSR703 - AOI01
Tropical Cyclone in Mexico
ACAPULCO COAST

Situation as of 28/10/2023 17:23 UTC

Grading MONIT01 - Detail map 03



Flooded area 0.052 ha
(~0.01% of total affected)

Potentially affected population
~ 2141
(0.5% of total affected)

Affected Built-up and Transportations

Built-up
186.4 ha
(4% of total affected)

Crisis Information

Flooded Area

Built Up Grading

Destroyed
Damaged
Possibly damaged

Transportation Grading

Main road, No visible damage

General Information

Area of Interest
Image Footprint

Placenames

Placename

Hydrography

Lake
Land Subject to Inundation

WorldView-3 (28/10/2023 17:22 UTC)
Pléiades Neo (26/10/2023 17:13 UTC)
Pie de la Cuesta

N
0 0.1 0.2 0.4 km
WGS 1984 UTM Zone 14N 1:7000

Event:
On 25 October around 06:25 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.

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 0.5 m).
Post-event images: WorldView-3 © Maxar Technologies, Inc. (2023), (acquired on 28/10/2023 at 17:21 UTC, 17:22 UTC and 17:23 UTC, resolution 0.5 m).
Pléiades Neo © CNES (2023), distributed by Airbus DS (acquired on 26/10/2023 at 17:13 UTC, resolution 0.3 m).

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015. Global Administrative Areas (2012), refined by the producer. Globe Land 30 (2010).
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
Digital Elevation Model:
FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus,2020).

Map produced by SERTIT released by e-GEOS on the 01/11/2023.

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

PROGRAMME OF THE EUROPEAN UNION

Copernicus
Europe's eyes on Earth

EMSR703 AOI: 01 Acapulco Grading

Consequences within the AOI							
	Unit of measurement		Destroyed	Damaged	Possibly damage*	Total affected**	Total in AOI
Flooded area		ha					589.1
Landslide		ha					11.4
Estimated population	Number of inhabitants					~ 380 000	~ 380 000
Built-up	Residential Buildings	ha	1 437.4	2 678.7	169.3	4 285.4	4 285.4
	Other non-residential buildings	ha	47.0	404.3	13.5	464.8	464.8
Transportation	Airfield runways	ha	0	0	0	0	494.5
	Helipad	ha	0	0	0	0	0.01
	Airfield runways	km	0	0	0	0	14.3
	Highways	km	0	0	0	0	16.0
	Primary Road	km	0	0	0.5	0.5	121.4
	Secondary Road	km	0	0	0	0	66.8
	Local Road	km	0	0.1	22.1	22.2	1 165.2
	Cart Track	km	0	0.02	4.9	4.9	54.3
	No Driveway	km	0	0.02	0.5	0.5	60.2
	Bridges and elevated highways	No.	1	1	6	8	8
Facilities	Sport and recreation constructions	ha	0	0	0	0	59.3
	Long-distance pipelines, communication and electricity lines	km	0	0	0	0	29.4
Land use	Forests	ha				305.8	4 998.4
	Inland wetlands	ha				210.7	970.2
	Other	ha				59.2	7 186.0
	Heterogeneous agricultural areas	ha				15.5	107.8
	Shrub and/or herbaceous vegetation association	ha				9.3	376.7
	Open spaces with little or no vegetation	ha				0	67.5

* Presence of damage proxies and proximity with destroyed/damaged asset
** Sum of all damage classes

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

PROGRAMME OF THE EUROPEAN UNION

Copernicus
The European Earth Observation Programme