

This service summarizes current satellite mapping activities of interest to GDACS stakeholders. It is issued weekly and based on contributions from map-producing entities and GDACS partners.

Satellite mapping overview

As of 16 October 2017

Americas

Tropical Cyclone Caribbean (Maria) – Glide Number: TC-2017-000136-MTQ

After the landfall of category 5 hurricane Maria in many Caribbean islands, UNITAR-UNOSAT has released four more analyses in order to determine the level of damage in Dominica. By using Pleiades (20 & 23 September 2017) and WorldView 2/3 (22 September & 1st of October 2017) imagery covering most of the island a high destruction rate was identified. In the North-western part of the island about 70% of the structures were potentially destroyed while in the North-eastern part this figure reached 90%. In the South-eastern the level of damage is about 70% of buildings affected in this zone of the island. By combining UNOSAT's and Copernicus analyses, a final damage assessment of the island will be compiled, in which about 30,000 identified affected buildings in Dominica are expected.

Source: UNITAR-UNOSAT, Copernicus EMS and NASA

Link: <https://unitar.org/unosat/maps/114>

Earthquake Mexico – Glide number: EQ-2017-000138-MEX

Following the 7.1M earthquake that struck the central part of Mexico on 19 September 2017, UNITAR-UNOSAT continued analysing several areas in the central part of the country. Damage assessment was performed over two towns in Morelos State and in central neighbourhoods of the cities of Mexico and Puebla. In the town of Jojutla 1,102 potentially damaged structures were detected with imagery from 03 October 2017. In the municipality of Cuauhtémoc 145 potentially damaged structures were identified with imagery from 26 September 2017. Over the downtown of Puebla 336 potentially damaged structures were detected with imagery from 23 September 2017. In the town of Tlaquiltenango 1,216 potentially damaged structures were detected with imagery of 05 October 2017.

Source: UNITAR-UNOSAT

Link: <http://www.unitar.org/unosat/maps/MEX>

Europe

Tropical Cyclone Ophelia Ireland– Copernicus EMS number: EMSR249

In the North Atlantic Ocean, tropical cyclone Ophelia-17 and has recently made landfall in Ireland, causing some power outages and road closures and continues currently moving towards the northeast. Copernicus EMS is currently monitoring the situation and will most likely release analyses in the following days.

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Source: Copernicus EMS

Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR2479>

Africa

Flooding Chad– UNOSAT number: FL20170926TCD

In support to the flood monitoring in the south of Chad, UNITAR-UNOSAT continued monitoring the rainy season and releasing satellite-detected surface waters extent. By means of Radarsat-2 imagery acquired on 5 October 2017, UNOSAT detected 15,331ha of surface water in the areas of D’joumane and Bongor, Tandjilé / Mayo-Kebbi Est Regions from which 6,667 ha were in Chad and 8,664 ha in Cameroon.

Source: UNITAR-UNOSAT

Link: <http://www.unitar.org/unosat/node/44/2706>

This summary is compiled by the GDACS mapping & satellite imagery coordination mechanism, operated by the UNITAR Operational Satellite Applications Programme (UNOSAT).

When referring to this summary, please credit: GDACS, UNITAR-UNOSAT.

For comments, questions and to submit information on satellite image derived products, please contact: maps@gdacs.org

Sources indicate satellite analysis production entities and imagery providers. The products referenced in this summary are based on remote satellite imagery and may not be validated in the field prior to release, in which case findings are based only on what is observed in the satellite imagery.