

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 26 September 2017

Americas

Tropical Cyclone Caribbean (Irma) – Glide Number: TC-2017-000125-DOM

Following the devastating track of the tropical cyclone IRMA-17 in several Caribbean islands and the southeast of the United States, UNITAR-UNOSAT released an overview product. An update of the comprehensive satellite-detected building damage assessment presented the detected damage over the affected Caribbean islands, previously analysed by different agencies: UNITAR-UNOSAT, SERTIT, Copernicus EMS and NGA.

Source: UNITAR-UNOSAT

Link: <http://www.unitar.org/unosat/node/44/2675>

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

After the landfall of the hurricane Maria that reached the category 5, in many Caribbean islands, several Charters activations have been triggered. At this point, the UNITAR-UNOSAT analyses are focused in Dominica where at least 15 people have been reported dead as the island was left devastated. Damage assessments by means of Pleiades imagery (20/09/2017) has shown a high damage percentage over the areas of Portsmouth (55%), Roseau (70%) and Pointe Michel (70%). Also in Dominica, Copernicus EMS graded the damage using WoldView-2 imagery (22/09/2017) and Pleiades-1A (23/09/2017) over the areas of Canefield (720 affected structures), Fond Cani (842), Grand Fond (460, Jimmit (154), Campbel, La Plaine (449), Mahaut (1,184) and Roseau (3670). Further damage assessment has been performed by Copernicus EMS over the areas of Road Town in the British Virgin Islands (GoeEye, 26/09/2017) and Basseterre in Saint Kitts and Nevis (Pleiades, 22/09/2017). Regarding the devastating damage over the island of Puerto Rico, Copernicus EMS has delineated flooded areas with Sentinel-1 imagery (21/09/2017) in Carolina, Frederiksted, Guayama, Humacao, Ponce and Salinas. Moreover, SERTIT assessed the damaged over Grand-Bourg area in Marie Galante (FR) with Pleiades imagery from 20 & 21/09/2017.

Source: UNITAR-UNOSAT, Copernicus EMS and SERTIT

Link: <http://www.unitar.org/unosat/node/44/2675>

<http://emergency.copernicus.eu/mapping/list-of-activations-rapid>

<http://sertit.u-strasbg.fr/RMS/action.php?id=9140873111>

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

After the 8.1 magnitude earthquake that struck the southeast of Mexico on September 8, 2017, a new earthquake occurred on September 19, 2017 at 6:14 UTC. The magnitude of this earthquake was 7.1M, with a depth of 50 km and a location of about 6 kilometres from the city of Izucar de Matamoros in the State of Puebla. The raising number of casualties is of at least 326, located mainly in Mexico City, and the states of Puebla and Morelos. In response, UNITAR-UNOSAT has activated the space charter and has assessed the damage in three areas located very close to the epicentre: Izucar de Matamoros (437 potentially damaged structures), Atzala (91) and Ayutla (423) by means of Pleiades imagery from 21 & 22 September 2017. At the same time, Copernicus EMS has graded the damage in Atlixco (100 damaged structures) and Tlancualpican (12) using GeoEye imagery from 21/09/2017. More analysis are soon expected.

Source: UNITAR-UNOSAT

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

Europe

Forest Fire Georgia– Copernicus EMS number: EMSR247

In the south-central part of Georgia, a forest fire has affected the Borjomi Municipality. In response Copernicus EMS graded the damage over the district of Tsaghveri and reported 865 ha of burnt area in the last update by using Spot-7 imagery from 25/09/2017.

Source: Copernicus EMS

Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR247>

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.