



***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 11 September 2017

### Americas

#### **Tropical Cyclone Caribbean– Glide Number : TC-2017-000125-DOM**

The tropical cyclone IRMA-17 has severely affected numerous Caribbean islands and the southeast of the United States. Following the track of the cyclone, some of the more affected islands were Barbuda, Anguilla, the British Virgin Islands, Puerto Rico, Turks and Caicos and Cuba. Four disaster charter calls have been activated regarding this event and thus several analyses have been published. UNITAR-UNOSAT performed three population exposure updates and damage assessment analyses in Anguilla (WorldView-2 from 05/07/2017) and Barbuda (Pleiades 08/09/2017). Further analyses of Antigua and Haiti, showed no major visible damage in the reviewed areas. In the following days, further analysis will be released for Turks and Caicos and a comprehensive damage estimates overview.

Copernicus EMS has released grading maps in the areas of Montellano, Pepillo, and Puerto Plata in the Dominican Republic with Pleiades imagery (10/09/2017). The areas of Cole Bay, and Philipsburg, in Sint Maarten, Netherlands Antilles with Pleiades imagery (08 and 10/09/2017). The Peter-Island, Tortola East, Tortola West, and Virgin-Gorda in the British Virgin Islands with SPOT 8/7 imagery (10/09/2017). And will probably soon release in Jacksonville and Tampa, United States. SERTIT published two damage assessments in Saint Jean Bay, Saint Barthélemy and in Marigot, Saint-Martin, both the French territories. EIGEO published three water extent analysis in the Dominican Republic, including the areas of San Pedro de Macoris, Cibao and Monte Cristi with Sentinel-1 (07/09/2017) and RapidEye (09/09/2017) imagery. The NASA Earth Observatory published pre and post event imagery from the British Virgin Islands and Barbuda showing the vegetation damage. The Dartmouth Flood Observatory published the flood extent maps for the central part of Florida, United States and for the northern part of Haiti and Dominican Republic with MODIS imagery.

Source: UNOSAT-UNITAR

Link: <http://www.unitar.org/unosat/node/44/2654>

<http://emergency.copernicus.eu/mapping/list-of-components/EMSR236>

<http://sertit.u-strasbg.fr/RMS/action.php?id=3431768011>

<https://earthobservatory.nasa.gov/IOTD/view.php?id=90952>

<https://disasterscharter.org/web/guest/-/cyclone-in-anguilla-call-627->

<http://floodobservatory.colorado.edu/Events/2017USA4516/2017USA4516.html>

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### **Mexico Earthquake– Glide number: EQ-2017-000128-MEX**

On September 8, 2017 at 4:49 UTC, an earthquake of magnitude 8.1 and depth of 69.7 km hit the southern coast of Mexico near the village of Pijijiapan in the state of Chiapas. In response, UNITAR-UNOSAT published a population exposure analysis and found 3.4 million people exposed to strong, very strong and severe shaking. In this last category, nearly 200,000 people were exposed in the states of Chiapas and Oaxaca. In the following days Copernicus EMS will most likely release grading maps for the municipalities of Juchitan de Zaragoza, Pijijiapan, Salina Cruz, Salinas del Marques and Tapachula. The media has reported at least 90 casualties and more than 2 million affected people.

Source: UNOSAT-UNITAR

Link: <http://www.unitar.org/unosat/node/44/2657>

## **Europe**

### **Flood Northern Ireland– Copernicus EMS number: EMSR238**

Since September 9<sup>th</sup> 2017, the Tuscany region has been affected by floods due to heavy rains. In the following days Copernicus EMS will most likely release delineation and grading maps for the municipalities of Ardenza Montenero, Quercianella, Rosignano, and Stagno.

Source: Copernicus EMS

Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR238>

### **Forest Fire Spain – Copernicus EMS number: EMSR237**

Forest fires have affected the region of Andalusia in the southern part of Spain. In response, Copernicus EMS has graded the damage in the municipalities of El Castillo de las Guardas, El Madrono, Granada de Rio Tinto, La Granada de Rio Tinto, and Las Cortecillas as well as in different parts of the town Almeden de la Plata. This analysis was performed with Spot 6/7 imagery from 10/09/2017 and 12/09/2017.

Source: Copernicus EMS

Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR237>

<http://emergency.copernicus.eu/mapping/list-of-components/EMSR239>

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*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](mailto: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.*