

***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.***

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## Satellite mapping overview

As of 12 January 2018

### Africa

#### **Madagascar Tropical Cyclone – GLIDE number: TC-2018-000001-MDG**

On 5<sup>th</sup> January 2018 the Tropical Cyclone AVA-18 made landfall on the eastern coasts of Madagascar, causing the displacement of several thousands of people and 29 casualties. UNITAR-UNOSAT Rapid Mapping service was activated and has conducted a suite of satellite-based assessments on the population exposure and on the flood waters extent in the regions of Analanjirofo, Atsinanana and Vatovavy-Fitovinany. The most affected districts were Brickaville and Mananjaray, with respectively ~2600 ha and ~1800 ha of flooded land. Also the Copernicus Emergency Management Service has been activated for this event and has produced a series of delineation maps of the northern and eastern coasts of Madagascar. The most severely hit areas were the communes of Antananarivo and Ambanja, where respectively ~28000 and 1900 people were affected.

Source: UNITAR-UNOSAT, Copernicus-EMS

Link: <http://www.unitar.org/unosat/maps/>, <http://emergency.copernicus.eu/mapping/list-of-components/EMSR264>

### Europe

#### **France Forest fire – Copernicus number: EMSR263**

As of 2 January 2018, a number of forest fires have devastated the northern part of the island of Corsica, burning more than 1500 ha of land. On the 4 January there were still six fires active, and Copernicus Emergency Mapping Service has been activated in order to monitor the impact of this event on the territory. In the following days delineation maps will be produced in the areas subject to the fires.

Source: Copernicus-EMS

Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR263>

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## North America

### California, U.S.A., debris flow

On the 10 January 2018, following a fire and torrential rain, a debris flow hit the city of Montecito, California, causing the disappearance of a ~12 people. NASA Earth observatory for natural hazards has reported the event by using Landsat 8 pre- and post-event images.

Source: NASA Earth Observatory-Natural Hazards

Link: <https://earthobservatory.nasa.gov/NaturalHazards/view.php?id=91573&eocn=home&eoci=nh>

## Oceania

### Papua New Guinea – GLIDE number: VO-2018-000002-PNG

On the 6 January 2018 the Kadovar Volcano has erupted for the first time in known history. Half of the homonymous island is covered in ash. According to the media there is potential risk of an explosive eruption that may cause a tsunami and/or landslides. DG ECHO has published an infographic illustrating the population exposure of the island and the distribution of volcanic ash. As of the 9 January 2018 591 people have been evacuated and flights to and from the island have been canceled.

Source: Relief web

Link: [https://reliefweb.int/sites/reliefweb.int/files/resources/ECDM\\_20180109\\_PNG-Volcano.pdf](https://reliefweb.int/sites/reliefweb.int/files/resources/ECDM_20180109_PNG-Volcano.pdf)



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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.*