

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 28 February 2018

Oceania

Tonga Tropical cyclone – UNOSAT number: TC20180209TON

The tropical cyclone GITA-18 originated as a tropical storm on the 9 February 2018 in the Pacific on the trajectory of Western Samoa, and has made landfall on Tonga on Monday 12 February, as a category 4 cyclone. UNITAR-UNOSAT has activated the International Space Charter for Major Disaster, and has continued releasing damage assessment analyses of Tongatapu Island. In addition, the UNOSAT rapid mapping team has conducted an assessment on the damage status of cultural heritage sites in Tonga after the cyclone. Also Copernicus Emergency Management Service has conducted flood extent and grading analyses over the western part of Tongatapu Island.

Source: UNITAR-UNOSAT, Copernicus EMS

Link: <http://www.unitar.org/unosat/maps>, <http://emergency.copernicus.eu/mapping/list-of-components/EMSR269/>

Papua New Guinea earthquake – GLIDE number: EQ-2018-000020-PNG

On the 25 February 2018 at 17:44 UTC time, an M 7.5 earthquake struck Papua New Guinea. The epicentre was near the Southern Highlands, ~30 km from the city of Tari, Hela Province, and the tremors were felt across the surrounding region, causing the loss of at least 16 lives. Media reports mention a number of destroyed villages and landslides obstructing roads. In response to this crisis, Copernicus Emergency Management Service has been activated is providing satellite mapping analyses, which will be delivered in the following days.

Source: Copernicus EMS

Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR270>

North America

USA floods

Following prolonged severe weather conditions, several areas of central USA have been inundated. Media reports that at around 70 rivers are in flood stage, affecting several states from the Great Lakes

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to Texas and causing three casualties. Dartmouth Flood Observatory released a flood extent analysis of the a number of rivers amongst which the Ohio River near Cincinnati, Ohio, USA.

Source: DFO

Link: <http://floodobservatory.colorado.edu/>

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.