

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 20 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 released a set of analyses over the islands of Tongatapu and 'Eua, Tonga, such as population exposure analysis, and damage assessments. 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/node/44/2766?utm_source=unosat-unitar&utm_medium=rss&utm_campaign=maps, <http://emergency.copernicus.eu/mapping/list-of-components/EMSR269/>

South America

Argentina floods – GLIDE number: FL-2018-000014-ARG

Following floods and inundations in northern Argentina, due to prolonged severe weather conditions, as of 24 January 2018, the International Space Charter for Major Disasters has been activated. The Comision Nacional de Actividades Especiales (CONAE) has released a flood detection analysis over the towns of Santa Victoria, Santa Maria and Amberes along the Pilcomayo River, as of the 8 February 2018.

Source: International Charter: Space and Major Disasters

Link: https://disasterscharter.org/web/guest/activations/-/asset_publisher/fmpRVvSW3UIw/content/flood-in-argentina-activation-564-?redirect=https%3A%2F%2Fdisasterscharter.org%2Fweb%2Fguest%2Factivations%3Fp_p_id%3D101_INSTANCE_fmpRVvSW3UIw%26p_p_lifecycle%3D0%26p_p_state%3Dnormal%26p_p_mode%3Dview%26p_p_col_id%3Dcolumn-1%26p_p_col_count%3D1

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Bolivia flood – UNOSAT number: FL20180209BOL

As of the 8 February 2018 heavy rains have caused floods across Bolivia, particularly at the border with Argentina and Paraguay. Seven of nine departments in the country have been affected displacing around 50, 000 people. The Tupiza River has overflowed, flooding the homonymous city and affecting around 1000 people. For this event, the International Charter for Major Disasters has been activated, as well as UNITAR-UNOSAT, which has released flood extent analyses over the cities of Cochabamba and Trinidad, Bolivia. Also the Bolivarian Agency for Space Activities (ABAE) has released a flood extent map over Santa Ana de Yacuma, Bolivia.

Source: UNITAR-UNOSAT

Link: <http://www.unitar.org/unosat/maps>, https://disasterscharter.org/web/guest/activations/-/asset_publisher/fmpRVvSW3UIw/content/flood-in-bolivia-plurinational-state-of-activation-565-?redirect=https%3A%2F%2Fdisasterscharter.org%2Fweb%2Fguest%2Factivations%3Fp_p_id%3D101_INSTANCE_fmpRVvSW3UIw%26p_p_lifecycle%3D0%26p_p_state%3Dnormal%26p_p_mode%3Dview%26p_p_col_id%3Dcolumn-1%26p_p_col_count%3D1,
http://www.unitar.org/unosat/node/44/2276?utm_source=unosat-unitar&utm_medium=rss&utm_campaign=maps

Asia

Philippines volcano hazard

Since the 14 January 2018 the volcano Mayon in the Philippines has shown signs of unrest. The Philippines Institute of Volcanology and Seismology (PHIVOLCS) constantly monitor it, and on the 8 February 2018 it has released a flood, landslide and lahar hazard map. Using this data, UN-OCHA has published a population exposure analysis for the hazards related to Mayon Volcano. According to the results, 420,500 people are susceptible to lahars and 768,200 are susceptible to landslides.

Source : Relief Web

Link: https://reliefweb.int/sites/reliefweb.int/files/resources/ocha-phil-mayon_volcano_hazard_profile_08022018_0.pdf

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

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