

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 09 January 2017

Asia

Philippines tropical cyclone – GLIDE number: TC-2016-000134-PHL

On 21 December 2016, tropical cyclone Nock-Ten formed over the Pacific Ocean near Micronesia. On 25 December 2016, it made landfall over Catanduanes province, the Philippines. Nock-Ten continued over Albay, Camarines Sur, Southern Quezon, Laguna, Batangas, and Cavite while decreasing in intensity and on 27 December 2016 left the Philippines landmass. On 03 January 2017, the European Commission's Directorate- General for European Civil Protection and Humanitarian Aid Operations (ECHO) released a map with affected areas and impact. The number of affected people has risen to 1,986,960. The Pacific Disaster Center released estimated impact maps on 26 December 2017. The map products are available to download as PDFs on the Reliefweb website.

Source: Reliefweb

Link: http://reliefweb.int/disaster/tc-2016-000134-phl/thumb#content_top

Thailand and Malaysia flood – GLIDE number: FL20170106THA

Continuous heavy rains have flooded southern regions of Thailand and northern regions of Malaysia. Hundreds of thousands of households have been affected. Using satellite imagery acquired on 11 December 2016 and 04 January 2017, UNITAR-UNOSAT mapped the satellite-detected surface water extents and evolution in southern Narathiwat Province, Thailand and Northern Kelantan State, Malaysia. Within the analysed area, ~71,000 ha of surface water was observed for the 11 December 2016 and reached ~108,580 ha the 04 January 2017. This corresponds to an evolution of about 50% within the analysed area. The map products are available to download as PDFs on the UNITAR-UNOSAT website.

Source: UNITAR-UNOSAT

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

Vietnam flood – GLIDE number: FL20161109VNM

Since 31 October 2016, Vietnam has experienced heavy rainfall causing severe flooding in Central and South-Central Vietnam including parts of the Central highlands. Thousands of homes are damaged and thousands of people are displaced. Using satellite imagery acquired on 06 December 2016 and 18 December 2016, UNITAR-UNOSAT mapped the satellite-detected surface water extents and evolution of Thua Thien Hue Province. Within the analyzed area in Thua Thien Hue Province, ~38,400 ha of surface water was observed for the 06 December 2016 and reached ~50,850 ha the 18 December

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2016. This corresponds to an evolution of about 32%, which was particularly observed in Phong Diên District (+6,100 ha) and Quang Diên District (+1,780 ha). Furthermore, using satellite imagery acquired on 07 November 2016, 01 December 2016, and 13 December 2016, UNITAR-UNOSAT mapped the satellite-detected surface water extents and evolution of Binh Dinh Province. Within the analyzed zone in Binh Dinh Province, ~49,400 ha of surface water was observed the 01 December 2016 and reached ~59,500 ha the 13 December 2016. The map products are available to download as PDFs on the UNITAR-UNOSAT website.

Source: UNITAR-UNOSAT

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

Middle East

Syria complex emergency – GLIDE number: CE20130604SYR

As a result of the continued conflict in Syria, UNITAR-UNOSAT conducted and published damage assessment and damage density maps for Deir Ez Zor and Idlib cities in Syria. Within Deir Ez Zor, UNITAR - UNOSAT identified a total of 4,673 affected structures, of which approximately 802 of these were destroyed, 1,410 severely damaged, and 2,461 moderately damaged. Within Idlib, UNITAR-UNOSAT identified a total of 1,267 affected structures, of which approximately 278 of these were destroyed, 353 severely damaged, and 636 moderately damaged. Satellite imagery acquired on 25 May 2016, 10 May 2015, 13 May 2014, 24 October 2013, 01 August 2016, 06 April 2015, 02 May 2014, and 15 September 2013 were analyzed. The map products are available to download as a PDF on the UNITAR-UNOSAT website.

Source: UNITAR-UNOSAT

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

North America

Mexico volcano – GLIDE number: TBD

From 28 December 2016 to 03 January 2017, the Colima Volcano released ash plumes which rose between 4.6 to 7.9 km above sea level and spread as far as 135 km. The NASA Earth Observatory acquired satellite imagery of the volcanic eruptions on 04 January 2017. The map product is available for online viewing and to download as a JPEG format on the NASA Earth Observatory website.

Source: NASA Earth Observatory

Link: <http://earthobservatory.nasa.gov/NaturalHazards/view.php?id=89396>

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United States volcano – GLIDE number: TBD

On 03 January 2017, Alaska’s Bogoslof volcano released an explosion as high as 33,000 feet. The NASA Earth Observatory acquired satellite imagery of the volcanic explosion on 03 January 2017. The map product is available for online viewing and to download as a JPEG format on the NASA Earth Observatory website.

Source: NASA Earth Observatory

Link: <http://earthobservatory.nasa.gov/NaturalHazards/view.php?id=89418>

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.

**Not an official GLIDE number, as event has no entry in GLIDE database, but used by GDACS for seamless information integration.*