

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 19 December 2016

Asia

Indonesia earthquake – GLIDE number: EQ-2016-000127-IDN

On 07 December 2016, 05:00 local time, an earthquake with a magnitude of 6.5M and depth of 10km struck the northern region of Indonesia's Aceh province, 17km northeast of Pidie Jaya. No tsunami was triggered however around 100 people were reported dead. Pidie Jaya district was closest to the epicentre and worst affected with at least 250 buildings damaged such as mosques, shops, and schools. Using satellite imagery acquired 10 December 2016, LAPAN conducted damaged assessments of areas within Aceh Province. The map products are available to download as PDFs on the International Charter on Space and Major Disasters website.

Source: International Charter on Space and Major Disasters

Link: <https://www.disasterscharter.org/web/guest/activations/-/article/earthquake-in-indonesia-call-595->

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 07 November 2016 and 01 December 2016, UNITAR-UNOSAT mapped the satellite-detected surface water extents and evolution of the Phu Yen, Binh Dinh, Quang Nam, and Quang Ngai Provinces. Within the analyzed zone in Binh Dinh Province, ~26,000 ha of the surface water was observed on the 07 November 2016, which reached ~49,400 ha on the 01 December 2016. Within the analyzed zone in Phu Yen, ~19,200 ha of surface water was observed on the 07 November 2016 and reached ~26,400 ha on the 01 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 Aleppo, Syria, thousands of structures and buildings have been damaged. UNITAR-UNOSAT identified a total of 35,722 affected structures, of which 4,773 were destroyed, 14,680 severely damaged, and 16,269 moderately damaged, as of 18 September 2016. This

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represents an increase of approximately 154.5% in total damage since UNITAR-UNOSAT's previous damage analysis published 01 May 2015. Satellite imagery acquired 18 September 2016, 01 May 2015, 26 April 2015, 23 May 2014, 23 September 2013, and 21 November 2010 were analyzed. This map product is available for download as a PDF on the UNITAR-UNOSAT website.

Source: UNITAR-UNOSAT

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

North America

Canada and United States snow storm – GLIDE number: TBD

On 14 December 2016 to the 18 December 2016, an arctic air mass brought meters of snow to communities around the Great Lakes in Canada and the United States. The arctic mass resulted in Winter Storm Decima. Wind gusts of 100- 195 km/h damaged powerlines and trees, and ice on roads caused road accidents. The NASA Earth Observatory acquired satellite imagery of the arctic air mass on 14 December 2016. 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=89277>

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.*