

***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 7 August 2018

### Asia

#### **Lao PDR flood – UNOSAT number: FL20180723LAO (GDACS ID: 1000210)**

On 23 July 2018, due to heavy rainfall, a hydroelectrical dam under construction collapsed in Attapeu Province, southeastern Laos, inducing flash floods through downstream villages in Sanamxay District. The total death toll arose to 29, more than 1,000 people are missing and more than 6,000 people have been made homeless, according to Al Jazeera and CNN. The International Space Charter has been triggered by UNITAR-UNOSAT on behalf of World Food Programme and by UNOOSA on behalf of the Ministry of Science and Technology and Department of Disaster Management and Climate of Laos. UNITAR-UNOSAT has released spatial analysis of the satellite-detected water extent and its time evolution and an estimation of potentially affected villages over Sanamxay district, Attapeu province. Additionally other organisations as the Luxembourg Institute of Science and Technology (LIST), CIMA Research Foundation, Deltares, the Asian Disaster Preparedness Center (ADPC), the Geo-Informatics and Space Technology Development Agency (GISTDA) of Thailand and the Joint Research Center (JRC) have released spatial analysis of the satellite-detected water extent and impact maps over the affected area.

Sources: UNITAR-UNOSAT & International Charter Space and Major Disasters

Links:

<https://gdacs-smcs.unosat.org/events/89>

<http://www.unitar.org/unosat/maps/LAO>

<http://www.gdacs.org/maps.aspx?eventid=1000210&eventtype=FL>

<https://disasterscharter.org/web/guest/activations/-/article/flood-in-lao-people-s-democratic-republic-activation-578->

#### **Indonesia earthquake – GLIDE number: EQ-2018-000127-IDN (GDACS ID: 1152815)**

A magnitude 6.9 earthquake struck the Indonesian island of Lombok in West Nusa Tenggara province On 5 August 2018. At least 98 people have been killed, more than 200 have been severely injured and some 10,000 have been evacuated, according to the media. One week before, on 28 July 2018, a magnitude 6.4 quake had already hit Lombok island, killing 16 people. The International Space Charter has been triggered by the Asian Disaster Reduction Center (ADRC) on behalf of the National Institute

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of Aeronautics and Space (LAPAN) of Indonesia. UNITAR-UNOSAT, LAPAN, SERTIT and Copernicus EMS are providing mapping support to the emergency response.

Sources: International Charter Space and Major Disasters & UNITAR-UNOSAT & Copernicus EMS

Links:

<https://disasterscharter.org/web/guest/activations/-/article/earthquake-in-indonesia-activation-580->

<https://gdacs-smcs.unosat.org/events/92>

<http://www.unitar.org/unosat/maps/IDN>

<http://emergency.copernicus.eu/mapping/list-of-components/EMSR304>

### **Myanmar flood**

Monsoon seasonal floods triggered by heavy rains continue to affect several states and regions in Myanmar. Since 9 July 2018, about 150,000 people have been displaced by flooding and at least 16 people have died, according to the Government's Department of Disaster Management. The Pacific Disaster Center (PDC) has released maps of potential landslide exposure, reported impacts and accumulated weekly rainfall for the Association of Southeast Asian Nations (ASEAN) region and is continuing to monitor the situation.

Source: ReliefWeb

Links:

<https://reliefweb.int/map/myanmar/myanmar-floods-situation-02-aug-2018>

<https://reliefweb.int/map/china/asean-region-monsoonal-flooding-potential-landslide-exposure-3-august-2018>

<https://reliefweb.int/map/myanmar/asean-region-regional-impacts-myanmar-lao-pdr-monsoonal-flooding-reported-impacts-and>

<https://reliefweb.int/map/myanmar/asean-region-myanmar-impacts-monsoonal-flooding-reported-impacts-and-accumulated>

### **Bangladesh flood**

The first heavy rains of the year swept through Rohingya refugee settlements in Cox's Bazar district, Chittagong Division, Bangladesh, on 9 June 2018, marking the start of the monsoon season and causing severe structural damages to the refugee camps. The Dartmouth Flood Observatory (DFO) at the

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University of Colorado has released an analysis of satellite detected water extent over Cox's Bazar District, from satellite data provided by NASA and European Space Agency.

Source: Dartmouth Flood Observatory

Link: <http://floodobservatory.colorado.edu/Events/4659/2018Bangladesh4659.html>

## Europe

### Portugal wildfire – Copernicus number: EMSR303

On 3 August 2018 a fire broke out in the municipality of Monchique, in the district of Faro, Portugal, affecting an area of more than 3,000 ha. According to wind direction forecasts, the urban area of Monchique risks to be affected by flames. Copernicus has released delineation maps and is working on grading maps over the affected area.

Source: Copernicus EMS

Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR303>

### Spain wildfire – Copernicus number: EMSR302

Forest fires occurred on 2 August 2018 in Nerva, a municipality located in Andalucía, in the south-western part of Spain. Wildfires were threatening the Estrecho natural park and firefighters were having problems in containing the flames because of high winds. Copernicus has released delineation and grading maps over the affected area.

Source: Copernicus EMS

Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR302>

### Latvia wildfire – Copernicus number: EMSR301

On 31 July 2018, a large bog fire was registered in Mazsalaca Municipality and Limbaži District, in the north of Latvia. Due to an ongoing drought and high winds, the fire has continued to spread and it was finally contained on 4 August 2018. Copernicus has released reference and delineation maps over the affected area.

Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR301>

### Greece wildfire – Copernicus number: EMSR300

On 23 July 2018, two large fires broke out in Attika, a region in the central-southern part of Greece. Attika regional authorities declared the state of emergency and the European Union Civil Protection

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Mechanism was activated. As of 5 August, the number of casualties has reached 90 and more than 700 have been evacuated. The International Space Charter has been triggered by the General Secretariat for Civil Protection on behalf of the Hellenic Space Agency. Copernicus has released delineation and grading maps over the affected area.

Sources: Copernicus EMS & International Charter Space and Major Disasters & ReliefWeb

Links:

<http://emergency.copernicus.eu/mapping/list-of-components/EMSR300>

<https://disasterscharter.org/web/guest/activations/-/article/fire-in-greece-activation-579->

<https://reliefweb.int/map/greece/greece-forest-fires-situation-emergency-response-coordination-centre-ercc-dg-echo-daily>

## Americas

### U.S. Maryland flood

In the second half of July 2018, several days of heavy rain hit the Mid-Atlantic United States, especially Maryland. The record-breaking rain triggered flash floods, closed roads and prompted several water rescues. The NASA Earth Observatory has released a rainfall accumulation map over the affected region between 20 and 23 July 2018.

Source: NASA Earth Observatory

Link: <https://earthobservatory.nasa.gov/images/92480/rain-swamps-the-mid-atlantic>

### U.S. Nevada wildfire

On 27 July 2018, a wildfire broke out north of the town of Reno, Nevada (U.S.). The wildfire, named Perry Fire, was one of the 98 large, active wildfires burning in the United States on 30 July 2018. The position of its smoke plume on 29 July allowed for a clear observation from space of the burned area and its evolution, during day and night.

Source: NASA Earth Observatory

Link: <https://earthobservatory.nasa.gov/images/92514/the-perry-fire-by-day-and-night>

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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)*

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