

*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.*

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## Satellite mapping overview

As of 06 February 2018

### Asia

#### **Afghanistan earthquake – GLIDE: 20180131AFG**

On Wednesday 31 January 2018 a M 6.1 earthquake struck the northern border of Afghanistan. Its epicentre was located in the Badakhshan Province. The earthquake caused one casualty and 11 injured people. UNITAR-UNOSAT conducted a population exposure analysis in response to the event. According to the results, more than 7,300,000 people were exposed to intensity IV of the Modified Mercalli Intensity Scale.

Source: UNITAR-UNOSAT

Link: [http://www.unitar.org/unosat/node/44/2763?utm\\_source=unosat-unitar&utm\\_medium=rss&utm\\_campaign=maps](http://www.unitar.org/unosat/node/44/2763?utm_source=unosat-unitar&utm_medium=rss&utm_campaign=maps)

### Europe

#### **Lithuania flood – Copernicus number: EMSR267**

On the 31 January 2018 an emergency situation was declared in the Silute municipality, Lithuania, after prolonged bad weather conditions. The banks of Rusne River overflowed, affecting 6 villages around it. The Fire and Rescue Department under the Ministry of Interior of the Republic of Lithuania activated the Copernicus EMS Rapid Mapping Service, which has released a delineation map of the affected area, as of 2 February 2018.

Source: Copernicus EMS

Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR267>

#### **France floods – GLIDE number: FL-2018-000016-FRA**

Following the flood events, started on the 23 January 2018, Copernicus Emergency Management Service has delivered further delineation maps in the areas south of Paris in order to monitor the floodwater extent and support the Centre Operationnel de Gestion Interministeriel de Crises (C.O.G.I.C) to manage the crisis.

Source: Copernicus EMS

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Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR265>

### **Latvia flood – Copernicus number: EMSR268**

Since the 23 January 2018 the rivers Daugava and Lielupe have increased their water level due to ice jam formations. As the temperatures have increased in the following days, the water level dramatically rose causing the overflow of the two rivers. In response to the event the Copernicus Emergency Management Service has been activated in support of the Latvian State Fire and Rescue Service.

Source: Copernicus EMS

Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR268>

### **South America**

#### **Argentina and Bolivia floods – GLIDE numbers: FL-2018-000014-ARG, FL-2018-000015-BOL**

Due to heavy rains and bad weather conditions, the state of emergency was declared in Presidencia Roque Sáenz Peña in Argentina on the 24 January 2018 and in the Santa Cruz department in Bolivia on the 1 February 2018. More than 10, 000 people were evacuated from their villages along the Pilcomayo River, northwest Argentina, which rose up to 6 metres in the town of Salta. As of 2 February 50,000 people living near the rivers Rocha, Ibare, Tupiza and Mamone in Bolivia have been affected by floods. The Seccion Nacional de Proteccion Civil Argentina has activated the International Charter Space and Major Disasters. As of the 4 February 2018 two flood extent analyses along the Pilcomayo River have been released by the Comision Nacional de Actividades Especiales (CONAE).

Source : International Charter Space and Major Disasters

Link: <https://disasterscharter.org/web/guest/-/flood-in-argentina-activation-564->

### **Guatemala volcano**

The Guatemalan volcano Fuego has shown signs of unrest since the 31 January 2018, when it erupted. According to the Coordinadora Nacional para la Reducción de Desastres (CONRED), the ash plume reached an altitude of 6, 500 m above sea level and was carried 40 km west-southwest by the winds, affecting tens of thousands of people in the provinces of Escuintla and Chimaltenango. Also the National Route 14 was closed due to lava flowing from two active conduits. The NASA Earth Observatory for Natural Hazards has analysed the concentration of sulphur dioxide in the plume.

Source: NASA Earth Observatory for Natural Hazards

Link: <https://earthobservatory.nasa.gov/NaturalHazards/view.php?id=91671&eocn=home&eoci=nh>

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## Oceania

### Australia flood -

Following four days of torrential rains and strong winds in late January, 939 mm of rain were received in the Kimberley region, Western Australia. This event has caused the overflow of the Fitzroy River and the flooding a vast extension of areas amongst which Kimberley Downs. Also the the Great Northern Highway, the only one servicing the region, has been inundated. As of the 30 January 2018 the Dartmouth Observatory has delivered a flood analysis of the affected areas, using Sentinel-1 images.

Source: Dartmouth Flood Observatory

Link: <http://floodobservatory.colorado.edu/Events/2018Australia4567/2018Australia4567.html>

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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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