

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 29 June 2015

Asia

Japan volcano – GLIDE number: TBD

A volcano located on the Japanese island of Nishinoshima erupted in late June 2015. The NASA Earth Observatory collected satellite imagery of the volcano on 21 June 2015 and created two overview maps. As of this date, lava flowed toward the southeast and a large plume of smoke was visible moving in a northeast direction. Several lava hotspots were detected in the southeast covering a new part of the island that was created by volcanic activity in November 2013 and later merged with Nishinoshima. As of 23 June 2015 the eruption continued and had contributed to enlarging the surface of this new island area. Map products are available for online viewing and download in JPEG format on the NASA Earth Observatory website.

Source: NASA Earth Observatory

Link: <http://earthobservatory.nasa.gov/NaturalHazards/view.php?id=86111&eocn=home&eoci=nh>

North America

Canada wildfires – GLIDE number: TBD

As a result of lightning, dry forests, and strong winds, Alberta and Saskatchewan experienced numerous wildfires in late June 2015. The NASA Earth Observatory acquired satellite imagery of the fires on 28 June 2015 and produced an overview map. Many actively burning areas were detected and vast smoke plumes moving in a southeast direction were visible north of the Athabasca Oil Sands in Alberta as well as to the south of Lake Athabasca in Saskatchewan. As of 28 June 2015, there were 27 uncontrolled fires burning in Alberta and 30 in Saskatchewan. Wildfire officials in Alberta have referred to this as one of the worst wildfire seasons in the last five years. This map product is available for online viewing and download in JPEG format on the NASA Earth Observatory website.

Source: NASA Earth Observatory

Link: <http://earthobservatory.nasa.gov/NaturalHazards/view.php?id=86147&eocn=home&eoci=nh>

United States wildfires – GLIDE number: TBD

Wildfires continued to spread in southern California and Alaska during the month of June 2015. As of 26 June 2015, a wildfire in San Bernardino National Forest had grown to 12,000 hectares in size. The NASA Earth Observatory acquired 20 and 25 June 2015 satellite imagery of this wildfire and

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.

produced overview maps. Maps of the fire on 20 June 2015 show smoke, burn scars, active fire, and unburned vegetation. At this time, approximately 60 square meters had been burned and 10 percent of the fire was contained. A map of the fire on 25 June 2015 displays three spots where the fire was actively burning and a large smoke plume moving in a north-westerly direction. This has been the largest California wildfire of the year thus far, threatening about 500 structures and costing five million dollars to contain. Alaska experienced an outbreak of 100 new fires from 20 to 21 June 2015. Satellite imagery collected 22 June 2015 shows multiple fires burning and smoke covering most of the state. As of 23 June 2015, one of the larger fires situated roughly 350 kilometers southwest of Fairbanks had been 90 percent contained. Map products are available for online viewing and download in GeoTIFF and JPEG format on the NASA Earth Observatory website.

Source: NASA Earth Observatory

Link: <http://earthobservatory.nasa.gov/NaturalHazards/view.php?id=86092&eocn=home&eoci=nh>

<http://earthobservatory.nasa.gov/NaturalHazards/view.php?id=86138&eocn=home&eoci=nh>

<http://earthobservatory.nasa.gov/NaturalHazards/view.php?id=86098&eocn=home&eoci=nh>

South America

Brazil floods – GLIDE number: TBD

Continuous flooding has occurred in Brazil since April 2015 and affected more than 250,000 people as well as 39 cities. On 11 June 2015, the International Charter on Space and Major Disasters was activated by the Brazilian Disaster and Risk Management National Center (CENAD). The CENAD recently published several maps of flood waters in the Amazonas State cities of Tefe, Amatura, Santo Antonio do Ica, Jutai, Coari, Codajas, Anori, Tonantins, Fonte Boa, Itapiranga, Sao Sebastiao do Uatuma e Urucara, Benjamin Constant, and Careiro da Varzea. Satellite imagery acquired 13, 18 and 22 June 2015 was used to extract the flood extent within and surrounding each city. The flood waters depicted in many of these cities were extensive and a direct result of the Solimoes River overflowing its banks. Map products are available for online viewing and download in JPEG format 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/-/flood-in-braz-3>

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.

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.*