

***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 04 December 2017

### Asia

#### **Iran-Iraq earthquake – GLIDE number: EQ-2017-000165-IRN**

Following the M 7.3 earthquake that struck in the area near the northern Iran-Iraq border on the 12 November 2017, the Iranian Space Agency in collaboration with UNITAR-UNOSAT mapped the distribution of people gathering sites and shelters in the Sarpol-e-Zahab Province, north of Sarpol City by using Pleiades images acquired on the 16 November 2017.

In addition, analysing the comparison between a pre-event ESRI World Imagery and a post-event Pleiades image of the 15<sup>th</sup> November 2017, Copernicus Emergency Management Service published a damage assessment map of the City of Darbandikhan, Iraq, and the results show that one structure has been estimated affected by the earthquake.

Source: UNITAR-UNOSAT/Iranian Space Agency, Copernicus EMS

Link:

[http://unosat-maps.web.cern.ch/unosat-maps/IQ/EQ20171112IRQ/UNOSAT\\_A3\\_EQ20171112IRQ\\_SarpolZahabNorth\\_Landscape\\_IDP\\_ISA.pdf](http://unosat-maps.web.cern.ch/unosat-maps/IQ/EQ20171112IRQ/UNOSAT_A3_EQ20171112IRQ_SarpolZahabNorth_Landscape_IDP_ISA.pdf),  
[http://emergency.copernicus.eu/mapping/system/files/components/EMSR256\\_01DARBANDIKHAN\\_02GRADING\\_MAP\\_v2\\_100dpi.pdf](http://emergency.copernicus.eu/mapping/system/files/components/EMSR256_01DARBANDIKHAN_02GRADING_MAP_v2_100dpi.pdf)

#### **Indonesia Mt. Agung Eruption-UNOSAT number VO20171125IDN**

On the 25 November 2017 the volcano Mt. Agung in Bali, Indonesia, erupted releasing large quantities of ash and preventing aeroplane flights over Bali. The alert level was raised from III to IV on this occasion and the inhabitants of the island living within 10 km of the volcano have been evacuated. NASA's Earth Observatory has published a MODIS Terra image acquired on 29 November 2017, showing the volcano's ash plume. An analysis on the concentration variation of sulphur dioxide (SO<sub>2</sub>) in the period between the 27 and the 28 November 2017 has been carried out by NOAA/NASA using the Ozone Mapper Profile Suite (OMPS) on the Suomi-NPP satellite. As noted, a reduction on SO<sub>2</sub> concentration is apparent on the 28 November.

Source: NASA Earth Observatory

Link: <https://earthobservatory.nasa.gov/>

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## Europe

### **Albania floods- Copernicus number: EMSR258**

In the last week severe weather has affected the northern and central areas of Albania, causing floods. As of the 1 December 2017, 39 families were evacuated, 18 structures were flooded and 71 000 houses are without electricity. In response of this event, the Copernicus Emergency Management Service has been activated and in the following days will be releasing flood maps in order to support the Albanian Civil Protection activities.

Source: Copernicus-EMS

Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR258>

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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)*

*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.*