

***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 27 November 2017

### Asia

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

In response of the M 7.3 earthquake that struck in the area near the northern Iran-Iraq border on the 12 November 2017, UNITAR-UNOSAT published a suite of infographics, describing the results of a preliminary satellite detected damage assessment of Sarpol-e-Zahab County carried out in collaboration with the Iranian Space Agency. Specifically, using post-event Pleiades images and pre-event WorldView 3 images, Sarpol City, Ghara Belagh Azam area, Koeeke Hasam and the northern villages of Sarpol County have been analysed. The results show extensive damages throughout the whole county amounting to 683 potentially damaged structures in Sarpol City, 412 in Ghara Belagh Azam, 3300 in the northern part on the county, including the the town of Koeeke Hasan. The Iranian Space Agency also performed an InSAR interpherometric analysis producing coseismic E-W and vertical displacement maps. These indicate that the most hit zone is Qasr-e-Shirin and its immediate surroundings.

Copernicus-Emergency Mapping Service (EMS) has analysed the area of Khurmali, Iraq, using Pleiades images of 15 November 2017, and the results showing that no visible damage is detectable from satellite imagery.

Source: UNITAR-UNOSAT, Copernicus EMS

Link: <http://www.unitar.org/unosat/maps>, <http://emergency.copernicus.eu/mapping/list-of-components/EMSR256>

### Europe

#### **Attika floods, Greece– Copernicus number: EMSR257**

Following the flooding event of the 15 November 2017 in Attika, Greece, Copernicus Emergency Management Service has produced Grading maps using Pleiades images of 20 November 2017. The EMS team assessed the number of potentially damages structures and infrastructure in the areas of Lakka Kalogirou, Mandra and Nea Peramos. The analysis concludes that a total of 471 people have been affected in Lakka Kalogirou, 6701 in Mandra and 178 in Nea Peramos.

Source: Copernicus-EMS

Link: <http://emergency.copernicus.eu/mapping/list-of-components/EMSR257>

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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:*

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*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.*