



***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 20 November 2017

### Asia

#### **Halabjah Earthquake- GLIDE number: EQ-2017-000165-IRN**

Following the M 7.3 earthquake that occurred on the 12 November 2017 in the area around the northern Iran-Iraq border, UNITAR-UNOSAT has conducted a damage assessment of the cities of Darbandikhan, Iraq and Sarpol-e-Zahab, Iran, with a particular focus on health facilities. The results of the analyses show that Darbandikhan did not undergo substantial damage and the health facilities are all intact except one hospital which has been subject to “superficial” damage on the roof. On the contrary the city of Sarpol-e-Zahab has resulted being intensely damaged by the seism, including the hospital. For Sarpol-e-Zahab and for the city of Qasr-e-Shirine, Iran, also an Internally Displaced People (IDP) assessment has been conducted thanks to a combined effort of the Iranian Space Agency and UNITAR-UNOSAT. The analyses show major and minor people gathering sites across the two cities.

The Copernicus Emergency Management Service has also conducted a damage assessment analysis of the cities of Said Sadiq, Dokan, Darbandikhan and Khurmali, Iraq. Little damage has been observed in all of the cities.

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

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

#### **Earthquake in South Korea – GLIDE number: EQ-2017-000167-KOR**

On the 15 November 2017 a 5.4 M earthquake struck the south-eastern coast of South Korea, 6 km north of Pohang City. As a consequence, 57 people were injured and 1,500 are displaced. The International Space Charter has been activated by the Korean Aerospace Research Institute (KARI) in response to this event.

Source: International Charter – Space & Major Disasters

Link: <https://disasterscharter.org/web/guest/-/earthquake-in-korea-republic-of-activation-560->

### Europe

#### **Floods Attika- EMS number: EMSR257**

On the 15 November 2017 flash floods have occurred in the area of Mandra and Nea Peramos (western outskirts of Athens), killing at least 19 people. The Copernicus Management Service has been activated in response of this event and in the following days will be publishing mapping products of the affected areas.

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Source: Copernicus Emergency Mapping Service (EMS)

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

*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.*