

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 18 February 2019

Africa

Flood in Mozambique due to Desmond Tropical Storm - Copernicus number: EMSR339

On 22 January 2019, tropical storm Desmond made landfall in the province of Zambézia, Mozambique, causing heavy flooding in Beira, Chinde and Quelimane. Reports indicate that 277 millimetres of rain was recorded in Beira (Mozambique's 4th largest city) within 24 hours while large waves crashed over the sea defences. The Copernicus Emergency Management Service (EMS), activated by the UN World Food Programme on 23 January 2019, produced 2 additional delineation maps and 1 monitoring map between the 13th and 15th of February 2019, over the areas of Chinde and Quelimane.

Source: Copernicus EMS

Links : <https://emergency.copernicus.eu/mapping/list-of-components/EMSR339>

Asia

Tropical Storm OMA-19 in Vanuatu – Glide Number TC20190213VUT

The tropical cyclone OMA-19 was originated on the 12 February 2019 on the Pacific and heading toward Vanuatu and New Caledonia. It became a tropical cyclone Category 2 on the 13 February 2019 according to Vanuatu's Meteorological Service. As of 13 February, OMA-19 was slowly going east-southeast direction and the predicted provinces to be affected included Sanma, Torba, Penma and Malampa, which have been placed on red alert by the National Disaster Office of Vanuatu. The western part of Sanma was expected to experience sustained wind speed > 90km/h. Based on data of the expected tropical cyclone path OMA, wind speeds zones from Joint Research Centre (Issued on 13 February 2019 06:00 UTC), and population data from WorldPop 2015, UNITAR-UNOSAT conducted a population exposure analysis for Vanuatu. As results, it was estimated that about 4% of population of Vanuatu was potentially exposed to sustained wind speed of 90 km/h, and 80% were exposed to sustained wind speed of 60 km/h. Also, about 2.5% of buildings of Vanuatu were expected to be exposed to the 90km/h sustained wind speed.

Source: UNITAR-UNOSAT

Link: <https://www.unitar.org/unosat/node/44/2863>

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Australia

Flood in Townsville, Australia - Copernicus number: EMSR342

The city of Townsville, Australia has been hit by severe rain in early February. Several zones have been flooded, and many more homes were expected to be evacuated in the Townsville's suburbs. Townsville and its surroundings were declared by the Authorities as a disaster area. As of 18 February 2019, 7 additional delineation maps as well as 5 monitoring maps were produced by The Copernicus Emergency Management Service (EMS) over the areas of North Normanton and South Normanton

Source: Copernicus EMS

Link: <https://emergency.copernicus.eu/mapping/list-of-components/EMSR342>

Europe

Wind Storm in South Austria - Copernicus number: EMSR340

The Copernicus Emergency Management Service (EMS) was activated on 23 January 2019 to produce delineation maps regarding the Vaia storm that had hit the regions of Carinthia and East Tyrol causing a considerable loss of trees. Indeed, from the 28 October 2018, with main impact on the 29th, an intense weather event with heavy rain and very strong wind occurred in the South of Austria. As of 18 February 2019, 2 updated delineation maps were released for the areas of Klagenfurt am Worthersee and Kirchbach.

Source: Copernicus EMS

Link: <https://emergency.copernicus.eu/mapping/list-of-components/EMSR340>

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Snowfall in Austria - Copernicus number: EMSR343

The Copernicus Emergency Management Service (EMS) was activated on 14 February 2019 to deliver an overview on forest damages and loss of trees following heavy snowfalls and avalanches in the western and southern parts of Austria from 07 to 18 January 2019.

Source: Copernicus EMS

Link: <https://emergency.copernicus.eu/mapping/list-of-components/EMSR343>

Flood in Western Greece - Copernicus number: EMSR337

On 12 January 2019, the Alfeios River, located in the Ilia Prefecture in western Greece, overflowed and flooded vast rural areas near the villages of Sekoulas, Dafnoula, Makrisia, Kalivakia, Frixia and Aspra Spitia. According to the local civil protection authorities and the Greek Agricultural Insurance Organization, as of 14 January large rural areas were still flooded and flow in Alfeios River was still high. The Copernicus EMS Rapid Mapping component was activated on 14 January to produce emergency maps over two Areas of Interest (Aols). The produced 2 delineation maps, published on 16 and 17 February, show 129.1 ha (12.9 km²) of the area flooded within the Aols.

Source: Copernicus EMS

<https://emergency.copernicus.eu/mapping/list-of-components/EMSR337>