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Use of Sub-Weekly Updated Satellite Imagery for Assessment of Damage - A Short Course on Earth Observation Methods and Data

Wednesday, 23 June 2021 09:50 (50 minutes)

In recent years the Earth Observation (EO) sector is going through a revolution due to data volume and quality growth, a significant part of which is available as open data. The European Copernicus mission provides new data covering the globe every 1-5 days, including multi-spectral imaging and synthetic aperture radar data. This provides unprecedented insight into the Earth and is also useful for assessing damage due to floods and drought, hail and other extreme weather events. For every event, one can get data about the immediate aftermath and the data prior, making it possible to estimate the state of the ground before and recovery afterwards. We will guide users through the basics of EO data and demonstrate how they can easily access the data. This will be followed by examples and conclude with a brief introduction to how advanced machine-learning models can be used to analyse the data on a large scale.

<https://apps.sentinel-hub.com/sentinel-playground/>

<https://apps.sentinel-hub.com/eo-browser/>

<https://apps.sentinel-hub.com/requests-builder/>

<https://www.indexdatabase.de/>

<https://custom-scripts.sentinel-hub.com/>

<https://www.sentinel-hub.com/explore/education/>

<https://www.sentinel-hub.com/develop/community/contest/#urban-growth-in-africa>

<https://race.esa.int/>

<https://sentinelhub-py.readthedocs.io/en/latest/index.html>

<https://eo-learn.readthedocs.io/en/latest/index.html>

<https://github.com/sentinel-hub/eo-learn-workshop>

<https://github.com/sentinel-hub/eo-flow>

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