Rapid Change Detection of Forest Cover Disturbances in the Ukrainian Carpathian

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Objective

Design, develop a methodology and demonstrate a European Forest Disturbance Monitoring System

a.near real time forest disturbance monitoring by providing disturbance indication maps in a user accessible web portal immediately after image acquisition by automated pre-processing, change detection and visualization.

b.annual disturbance maps with thematic parameters

Service primarily focused on Sentinel-2 satellites from the Copernicus programme







Forest

Forest masking based on Random Forest Classification

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Based on NDVI approach and time series forest masks, for the quantitative validation of the Annual Forest Disturbance Mapping products, the following categories are assessed:

- ⁻⁻ Stocked areas / Forest
- " Unstocked Areas / Non-Forest
- ⁻⁻ Disturbances

Webtool implemented for validation main window



Detected Disturbances in region of Skole administrative district

https://diabolo-nrtdm.ign.fr/ - Near Real Time Disturbance Mapping

Confirmation of Disturbances

