



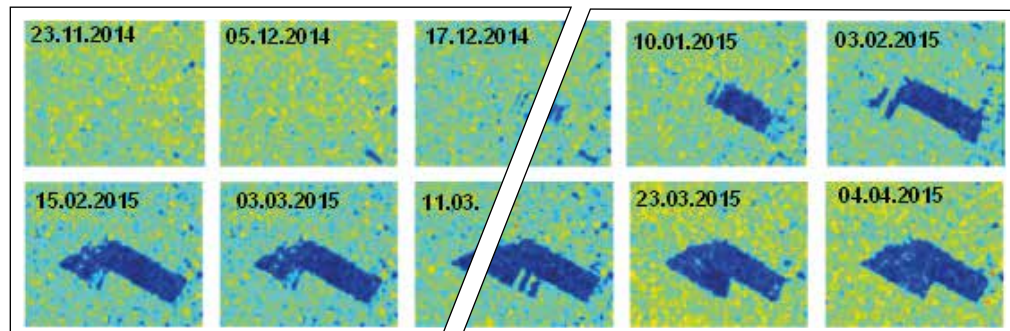
EOMonDis (2016-2019)

Bringing Earth Observation Services for Monitoring Dynamic Forest Disturbances to the Users

The EOMonDis Project aims to offer operational Earth Observation (EO) based tropical forest monitoring services to support countries and a wide range of users with accurate relevant forest information data for their reporting requirements. The project especially is supporting countries implementing the REDD+ policy process as well as stakeholders involved in implementing Zero Deforestation commitments. An investigation into the funding mechanisms supporting the forest monitoring for the REDD+ and ZD as well as a user feedback mechanism will assure the sustainability of project developments.

The main objective of EOMonDis is to develop innovative methods to overcome existing challenges of tropical forest monitoring by integrating dense time-series from optical and radar sensor systems, especially from the suite of the newly launched Sentinels. The methods developed are tested and demonstrated on selected sites in Cameroon, Gabon, Malawi and Peru in order to take account of the phenological variety of tropical biomes.





Example of the radar backscatter behavior during the evolution of a forest clearing (images by CESBIO). Dense time series data allows the monitoring of gradual forest degradation and deforestation. Blue colour represents cleared forest areas.

Project Activities:

The implementation of the project is comprised of four main tasks:

► Requirements Assessment

The EOMonDis developments are based on the collection of functional requirements, building an optimal trade-off between environmental and climate policy requirements, the related potential markets, operational User needs and technological constraints.

► Innovation and Development

The mapping of forest disturbances and forest degradation is based on methodological improvements of processing chains for dense time series of optical and radar satellite data. The Users access to the products will be improved through a web based service platform.

► Demonstration and Validation

The experiences and feedback acquired during the demonstration and validation phase is the basis for further improvements and customisations of the products and the service platform.

► Service Provision

The project will be ready to provide user-tailored forest monitoring products for roll out, such as Forest Cover Maps, near real-time Forest Disturbance Maps, Above-Ground Biomass Maps and respective change products.

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