

Capacity for Copernicus REDD+ and Forest Monitoring Services



REDDCopernicus Online Workshop

Learning Exercises & Demonstration Cases

30 September - 1 October 2020, Brazil

Webinar starting at 8:00 (Brazil)

Background

The **REDDCopernicus** project, launched in 2019 in the context of the European Commission Horizon 2020 research and innovation program, aims to implement a co-ordination and consolidation of the existing European Capacity for Earth Observation (EO) based Forest Monitoring with relevant stakeholders, international agencies, the research community and the private sector.

A key outcome of the project will be a **proposal for a framework for a Copernicus REDD+ Service**, which can make use of the planned Copernicus Data and Information Access Services Platform (C-DIAS) for improving EO data and product accessibility and functionality to end users – both tropical and European users.

In the framework of the REDDCopernicus project, a **series of Webinars** and **hands-on sessions** will be organised with REDD+ users in Brazil to present, discuss and validate concepts / products and tools of a potential Copernicus REDD+ service for improving the monitoring of forest change in tropical countries.

The **Initial Design of the Copernicus REDD+ Service Component** is available as background information for this Workshop at: <https://www.reddcopernicus.info/downloads>

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Aims of the workshop

The objective of the workshop is to **present and evaluate selected concepts/products** that could serve for improved forest monitoring and reporting in the context of REDD+. These products might be provided to users in tropical countries through a Copernicus REDD+ service. Products may include tailored thematic data layers capturing forest status and forest change processes (e.g. tree cover density or forest canopy disturbance maps) as well as satellite image products (e.g. Sentinel-2 composites).

Case studies will be presented for test sites in Brazil in order to assess the relevance of these products for national REDD+ forest monitoring and reporting.

The assessment will examine to which extent these concepts / products can either:

- **provide an improved basis** for national REDD+ forest monitoring & emission reporting,
- **be useful as complementary component** to existing concepts / products, or
- **deliver added-value** but requiring further adaptation to better match national needs.

The workshop will therefore offer an **important opportunity** to REDD+ users in tropical countries **to contribute to the shaping the design of a future Copernicus REDD+ service** in a way to best meet national reporting needs.

Target audience

Relevant stakeholders are institutions / users in tropical countries involved in national REDD+ forest monitoring and emission reporting, such as national forest and environmental institutions and ministries.

Expected outcome

An expected key outcome from this online workshop will be a **report summarizing the user feedback and the results** from the evaluation, identifying products/tools desired by national users from a potential REDD+ Service component of the European Copernicus Programme. The user feedback will be documented in a **standardized evaluation and assessment form**.

Contacts

The workshop conveners are: René Beuchle (rene.beuchle(at)ec.europa.eu) Baudouin Desclée (baudouin.desclee(at)ec.europa.eu), Andreas Langner (andreas-johannes.langner(at)ec.europa.eu), Hugh Eva (hugh.eva(at)ec.europa.eu),,

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Practical Modalities

Given the travel restrictions due to the COVID-19 outbreak, the workshop will be performed on-line with a series of interactive Webinars and individual hands-on sessions within a week. The participants will provide their feedbacks through online surveys.

Presentation materials will be provided right before the sessions to allow the participants to follow the presentations offline. Links to access the datasets will be provided in advance – using a Geoportal Platform and/or delivery of data via zip files. Hands-on exercises with the datasets is an option but additionally there will be demonstration sessions as part of the Webinar series.

Agenda

The virtual workshop will include five modules of web sessions and sessions of hands-on and feedback collection in on-line questionnaires.

Wednesday 29 September

Morning (8:00 Brasilia time)

Introduction to Webinar

- Welcome
- Introduction to the EU Copernicus program
- Overview of the REDDCopernicus project

Session 1 - Concepts for Analysis Ready Satellite Data (Sentinel-2)

- S2GM and JRC L1C S2 imagery & composites – Presentation and Discussion
- Demo Session with Geoportal and Q&A

Session 2 - Concepts for Assessment of Tree/ Forest Cover Status Maps

- Tree Cover Density (TCD) & Forest Type/ Seasonality (FTY) – Presentation & Discussion
- Tropical Moist Forest (TMF) Status – Presentation & Discussion
- Demo Session with Geoportal and Q&A
- Guidance for on-line questionnaire and Geoportal access

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Afternoon (14:00 Brasilia time)

Session 3 - Concepts for Assessment of Forest Cover Change Maps

- Tropical Moist Forest (TMF) Change – Presentation & Discussion
- BFAST (Breaks For Additive Season and Trend) – Presentation & Discussion
- Demo Session with Geoportal and Q&A

Hands-on review by partners of products using on-line Geoportal
On-line completion of Questionnaire for products

Thursday 1 October

Morning (8:00 Brasilia time)

Introduction to Webinar Day 2

Session 4 - Concepts for Assessment of Forest Disturbance and Alerting

- FCDM Forest Canopy Disturbance Monitoring – Presentation & Discussion
- Radar Forest Cover Loss Alerts (BAYTS) – Presentation & Discussion
- Demo Session with Geoportal and Q&A

Session 5 - Concepts for Platform and Service Solutions

- Introduction to C-DIAS and Platform Solution – Presentation and Demo
- REDD Reporting Interface (ForestER) – Presentation and Demo
- Q&A

- Hands-on review by partners of products using on-line Geoportal
- On-line completion of Questionnaire for products

Session 6 - Synthesis and Closure

- Summary of all presented Concepts
- Guidance and completion of the last on-line questionnaire
- Q&A
- Closure of the workshop

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