

## Satellite Monitoring for Forest Management - the Case of Tropical Dry Forests and the Changing Paradigm in Information Management

**May 2, 2022 | 5:30 PM to 7:00 PM (KST) | 8:30 AM – 10:00 AM (UTC)**

Simultaneous translation will be provided in French

### **Registration/Zoom link:**

[https://worldbankgroup.zoom.us/webinar/register/WN\\_Q4t6eCy0Qc0QGVbAyUN0EQ](https://worldbankgroup.zoom.us/webinar/register/WN_Q4t6eCy0Qc0QGVbAyUN0EQ)

### **OVERVIEW**

Recent major breakthroughs in satellite Earth Observation (EO) data provision provide unprecedented views of the Earth and present an opportunity to address limitations in forest monitoring capabilities. In 2014 and 2015, the European Space Agency (ESA) launched two satellite missions – Sentinel-1 and -2 – aimed at responding to the challenges of monitoring the global environment. The World Bank implemented the Satellite Monitoring for Forest Management (SMFM) project to develop satellite EO methods and global knowledge to address challenges related to monitoring tropical dry forest ecosystems and forest degradation assessment. ESA was a key project partner, providing on-time support in the form of data, tools, and technical knowledge. The Project was financed by the Global Environment Facility (GEF).

This side event will present innovations in technical solutions to monitor changes in tropical dry forests. In addition to presenting new and innovative technical solutions, it will launch a discussion on how capacity constrained forest administrations need to change their decision making, budgeting and capacity building to tap the better the opportunities provided by new information technology and improved access to data.

**Paper:** Satellite Monitoring for Forest Management: Use of Earth Observation Tools in the Monitoring of Tropical Dry Forests

### **AGENDA & SPEAKERS**

**Moderator:** Garo Batmanian, Global Lead for Forests, Landscapes, and Biodiversity, The World Bank

**Presenter:**

**Satellite Monitoring for Forest Management – General Introduction and the SMFM Tools:** | Sam Bowers, Postdoctoral Research Associate, University of Edinburgh


**Panelists:**

Anna Burzykowska, Copernicus Innovation Officer, European Space Agency (ESA)

Julian Fox, Team Leader National Forest Monitoring, Food and Agriculture Organization (FAO)


Aristides Muhate, MRV Coordinator, Ministry of Agriculture and Rural Development – Mozambique

BIOS




Sam Bowers,  
Postdoctoral  
Research  
Associate,  
University of  
Edinburgh

Sam focuses on the application of remote sensing technologies for sustainable management of tropical dry forests and savannas. Sam led technical development work on the SMFM tools and was the focal point for their implementation in Mozambique, Namibia and Zambia.



Anna  
Burzykowska,  
Copernicus  
Innovation  
Officer, ESA

She has been working with the European Space Agency since 2008 on the development of applications of satellite imagery and data. She was responsible for the development of operational services to demonstrate the uses of Earth Observation for Sustainable Development and ESA Partnership with the World Bank.



Garo Batmanian,  
Global Lead for  
Forests,  
Landscapes, and  
Biodiversity, The  
World Bank

Garo leads the implementation of the integrated green agenda at the Bank. He coordinates manages the Global Partnership for Sustainable and Resilient Landscapes (PROGREEN), and the Forest Investment Program (FIP). Garo is the World Bank focal point on the Collaborative Partnership on Forest(CPF), and the chair of the Finance Task Force of the UN Decade for Ecosystem Restoration Initiative.



Julian Fox, Team  
Leader National  
Forest  
Monitoring, FAO

Julian Fox is an Australian with 25 years of experience in forest monitoring and assessment. For seven years, Julian lived and worked in developing countries managing international forest monitoring projects in Papua New Guinea and Zambia. Julian has been with FAO for 10 years, 3 years in Zambia and 7 years based in HQ. He has a PhD in Forest Assessment (2000) from the University of Melbourne. As Team Leader of National Forest Monitoring, Julian is responsible for leading the NFM work of the Forestry Division.



Aristides  
Muhate, MRV  
Coordinator,  
Ministry of  
Agriculture and  
Rural  
Development –  
Mozambique

Aristides Muhate has 17 years of experience in the forest sector both with the Government and private sector. He led the 4th National Forest inventory, the production of the historical deforestation data, the development of the 2016 Land Use Land Cover map, the development of the Forest Reference Emission Level for Mozambique, and the production of annual deforestation and emissions data for Mozambique.