

# Conceptual design of an ecological observatory system for Colombia

Universidad Nacional de Colombia sede Medellín, Bloque 19A, 206-207

November 22, 2016

This meeting will start with an introduction to the EOS project and its concept. Presenters will introduce specific topics in 12-minute talks with 3 additional minutes for questions. At the end of the meeting there will be a one-hour session to discuss the main EOS concept.

## Schedule

- **8:30**, Carlos A. Sierra, Max Planck Institute for Biogeochemistry, *Why an observatory system for Colombia?*
- **9:00**, Miguel Mahecha, Max Planck Institute for Biogeochemistry, *The underexploited potential of Essential Climate and Essential Biodiversity Variables for Ecosystem Synthesis Studies*
- **9:15**, Germán Poveda, Universidad Nacional de Colombia sede Medellín, *The Hydrologic Cycle of Colombia Across Space-Time Scales: Challenges for Hydro-Ecological Studies*
- **9:45**, Lina Estupiñán, Instituto Alexander von Humboldt, *Desde la ciencia a la gestión: Aportes del Instituto Humboldt al monitoreo ecológico*
- **10:00**, All, *Coffee break*
- **10:30**, Abad Chabbi, French National Institute for Agricultural Research, *TBA (Video conference)*
- **10:45**, Kirsten Thonicke, Potsdam Institute for Climate Impact Research, *Modelling plant trait diversity in tropical forests (video conference)*
- **11:00**, Dolores Armenteras, Universidad Nacional de Colombia sede Bogotá, *Fire interactions with climate, deforestation and forest fragmentation in Colombia*
- **11:15**, Jesús Anaya, Universidad de Medellín, *Drivers of biodiversity loss in the context of Remote Sensing*
- **11:30**, Álvaro Duque, Universidad Nacional de Colombia sede Medellín, *Demographic patterns in natural forests of Colombia: is climate driving them?*

- **11:45**, Börjn Reu, Universidad Industrial de Santander, *Remote sensing of vegetation: Beyond land cover and biomass estimation*
- **12:00**, All, *Lunch break*
- **13:30**, Mercedes Bustamante, Universidade de Brasilia, *Monitoring of Forest Dynamics: carbo stocks, greenhouse gas fluxes and biodiversity*
- **14:00**, Guido Kraemer, Max Planck Institute for Biogeochemistry, *The emerging Earth System Data Cube: Idea and first applications*
- **14:15**, Victor Gutierrez, Temple University, *Laying the foundations for social-ecological monitoring in Colombia*
- **14:30**, Catalina González, Universidad de los Andes, *Mind the gap: the importance of paleoecological analyses to address ecological systems beyond the instrumental record*
- **14:45**, Sandra Skowronek, University of Erlangen-Nuremberg, *Finding the best approach for detecting small quantities of invasive plant species with hyperspectral remote sensing data*
- **15:00**, All, *Coffee break*
- **15:30**, Hank Loescher, Battelle-National Ecological Observatory Network, *Challenges in developing an integrated environmental observatory (Video conference)*
- **16:00**, Juan Posada, Universidad del Rosario, *Upper Andean Forest Monitoring Network*
- **16:15**, Rodrigo Jiménez Pizarro, Universidad Nacional de Colombia sede Bogota, *Quema de biomasa, agricultura intensiva, emisiones atmosféricas y acumulación de C en la Altillanura colombiana*
- **16:30**, Carlos D. Ruiz, Escuela de Ingeniería de Antioquia, *Multi-tiered integrated approach to assess the impacts of changes in climatic conditions on the integrity of Páramo environments*
- **16:45**, All, *Discussion*
- **17:45**, All, *Adjourn*