

## **From Earth Observations to Earth Action: Satellite Applications for Biodiversity Conservation**

Sunday, September 4, 2016

2:30 – 7:00 p.m. HST (UTC-10)

An interactive event that will introduce participants to the applications of remote sensing to a variety of IUCN supported conservation initiatives and international climate change agreements. Participants will work through a series of self-paced, hands-on, step-by-step exercises based on readily available web tools. The campus will conclude with a session where participants may provide feedback on the tools presented and identify specific end-user needs in order to address their decision support activities as they concern conservation and biodiversity

### **Trainers**

- Cindy Schmidt, [cynthia.l.schmid@nasa.gov](mailto:cynthia.l.schmid@nasa.gov)
- Jenny Hewson, [jhewson@conservation.org](mailto:jhewson@conservation.org)
- Karyn Tabor, [ktabor@conservation.org](mailto:ktabor@conservation.org)
- Brock Blevins, [brockbl1@umbc.edu](mailto:brockbl1@umbc.edu)
- Tanya Birch, [tanyak@google.com](mailto:tanyak@google.com)
- Lilian Pintea, [lpintea@janegoodall.org](mailto:lpintea@janegoodall.org)

### **14:30 – 14:45: Who We Are and Why Remote Sensing?**

- Introduction to the campus, trainers, and participants
- Objectives of the Campus
- Brief examples of how practitioners use remote sensing for conservation

### **14:45 – 15:30: Introduction to Remote Sensing**

- Key concepts and fundamentals
- How remote sensing data products can be applied to aid IUCN supported conservation initiatives

### **15:30 – 16:40: Remote Sensing for Conservation and Biodiversity**

*In support of the IUCN Red List of Threatened Species, the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem (IPBES), Ecologically and Biologically Significant Areas (EBSAs) Key Biodiversity Areas, the Convention on Biological Diversity, and Aichi Targets.*

- Animal movement
- Dynamic habitat index for biodiversity
- Citizen science approach to chimpanzee monitoring (Jane Goodall Foundation)

*In support of the United Nations Framework Convention on Climate Change (UNFCCC), the United Nations Convention to Combat Desertification (UNCCD), Protected Planet (World Database on Protected Areas) with UNEP-WCMC, the IUCN Red List of Ecosystems, REDD+, and the United Nations Sustainable Development Goals.*

- Vegetation carbon stock corridors
- New and emerging uses of remote sensing for land change detection
- Firecast success stories – near real-time monitoring for improved landscape management
- Introduction to Google Earth Engine

**16:40 – 16:45: Intermission**

**16:45 – 18:15: Remote Sensing Tools and Data Exploration Exercises**

Land Management and Ecosystem Based Tools:

- Coral Reef Watch\*
- Firecast (Near Real-Time Monitoring)
- Global Forest Watch\*

Species, Biodiversity, and Habitat Based Tools:

- Google Earth Engine Explorer
- Map of Life
- MODIS NDVI Anomalies and Time Series\*

*\*optional exercises*

**18:15 – 19:00 Feedback and Wrap-up**

- Report back by groups on tools and exercises
  - With linkages to broader IUCN initiatives
  - Did this campus provide the information needed for robust decision-making activities?
- Completion of survey
- Wrap-up