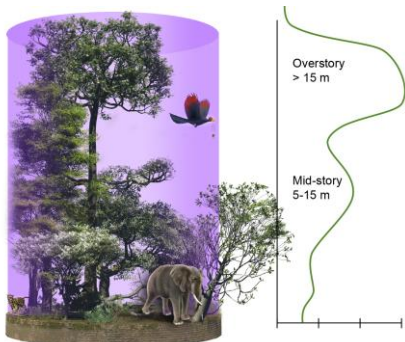


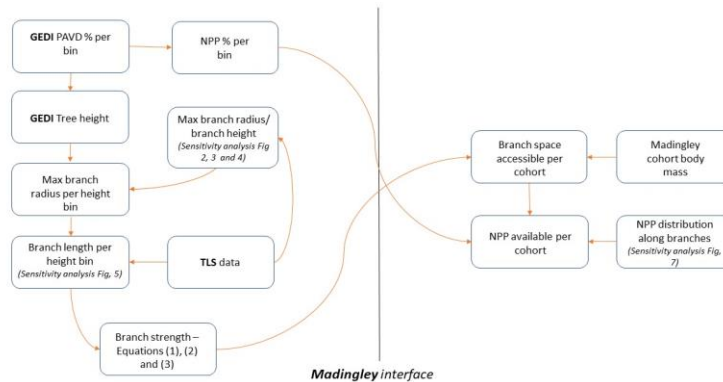
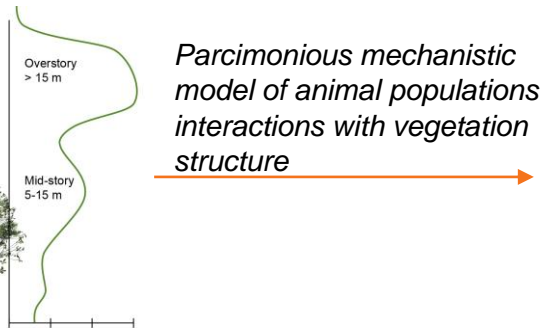
Unravelling the Role of Vegetation Structure in Ecosystem Functioning with LIDAR, Field Studies and Modelling



Camille Gaillard, Andrew Abraham, Mike Harfoot, Patrick Jantz, Patrick Burns, Tobias Jackson, Alexander Shenkin, Luca Santini, Susana Baena, Scott Goetz, Christopher Doughty

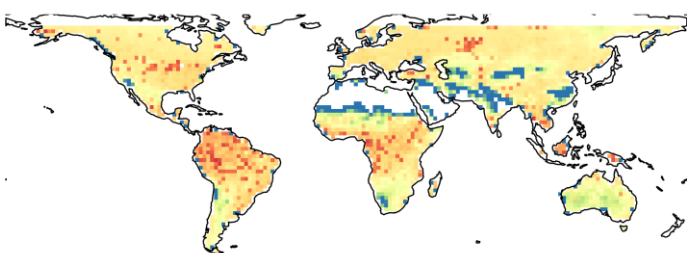


Animal populations x Forest structure.

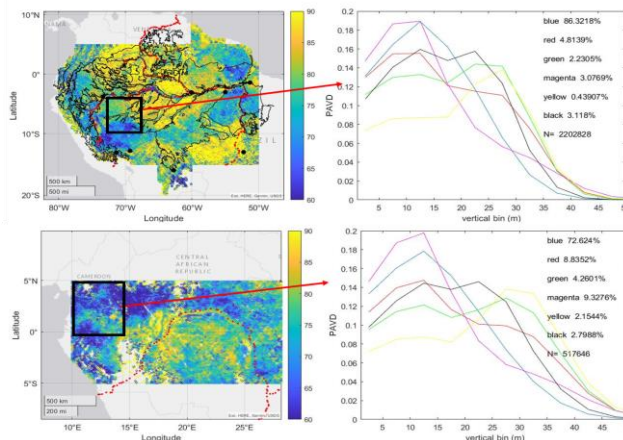
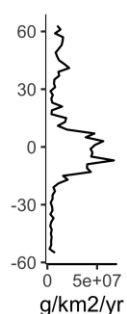


Targets:

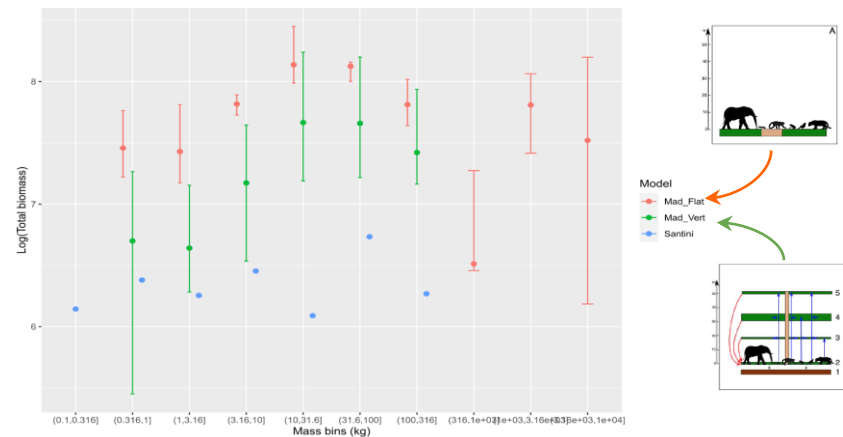
- How are the distribution of arboreal traits and species related to vegetation structure?
- How can we model the impact of vegetation structure on animal communities?
- Which vegetation structure parameters are key drivers of animal communities?
- How does forest management impacts forest structure and associated animal populations?
- How are trophic cascades shaped by vegetation structure?



Simulated insect herbivory



Processed GEDI data = Forest structure



Simulated body size classes, 2D vs. 3D vs. Data