Ferraz–Quantifying Seed Dispersal from Space

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Motivation: Integrating remote sensing and ICARUS animal tracking to understand seed disperser movements and their consequences across tropical rainforest gradients of structural and phenological diversity

Team

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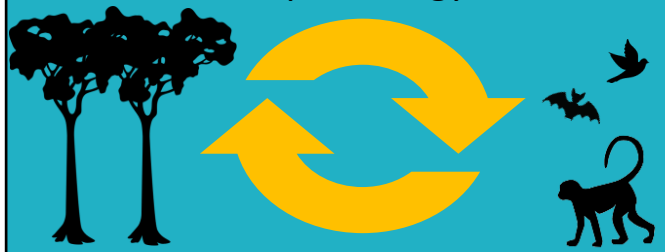
Science Questions

How is the movement of seed-dispersers influenced by variation in forest structure, functional diversity, and phenology?

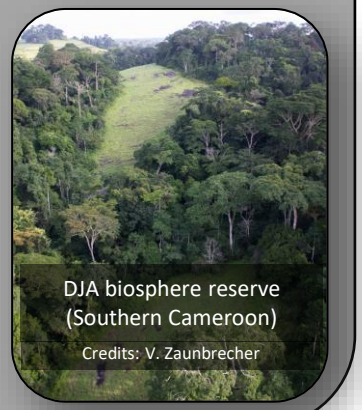


How does forest structure, function, and anthropogenic fragmentation influence animal movements and patterns of seed dispersal?

Remote Sensing

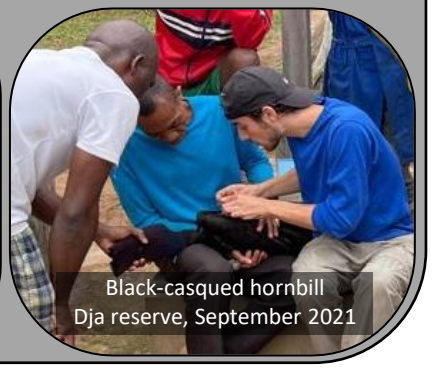
Characterize tropical forest:
- Structure
- Functional diversity
- Phenology
- Degradation

GEDI
DESIS
ECOSTRESS
Landsat
SRMT
…
Drone LiDAR


DJA biosphere reserve (Southern Cameroon)
Credits: V. Zaunbrecher

ICARUS

Track movement from space (5 key seed dispersers):
- Birds
- Bats
- Primates
- Antelope


Black-casqued hornbill
Dja reserve, September 2021

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