Assessing the impacts of *Varecia variegata* lemurs on plant community composition in the Complex Torotorofotsy Ihofa rainforest

BACKGROUND

Lemurs have important roles as seed dispersers in Madagascar forest ecosystem

To better understand forest ecology, we need to characterize:

1. What is the correlation between the amount of feeding time and the number of seeds defecated?
2. How does frugivory by lemurs affect plant communities composition?

Varecia variegata

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What is the correlation between the amount of feeding time of *Varecia variegata* and the number of seeds defecated?

Number of seeds defecated (*Varecia variegata*)

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2 Groups of *Varecia variegata*

ID Plant species eaten

Number of survey

Duration of lemur feeding to defecation

Number of group

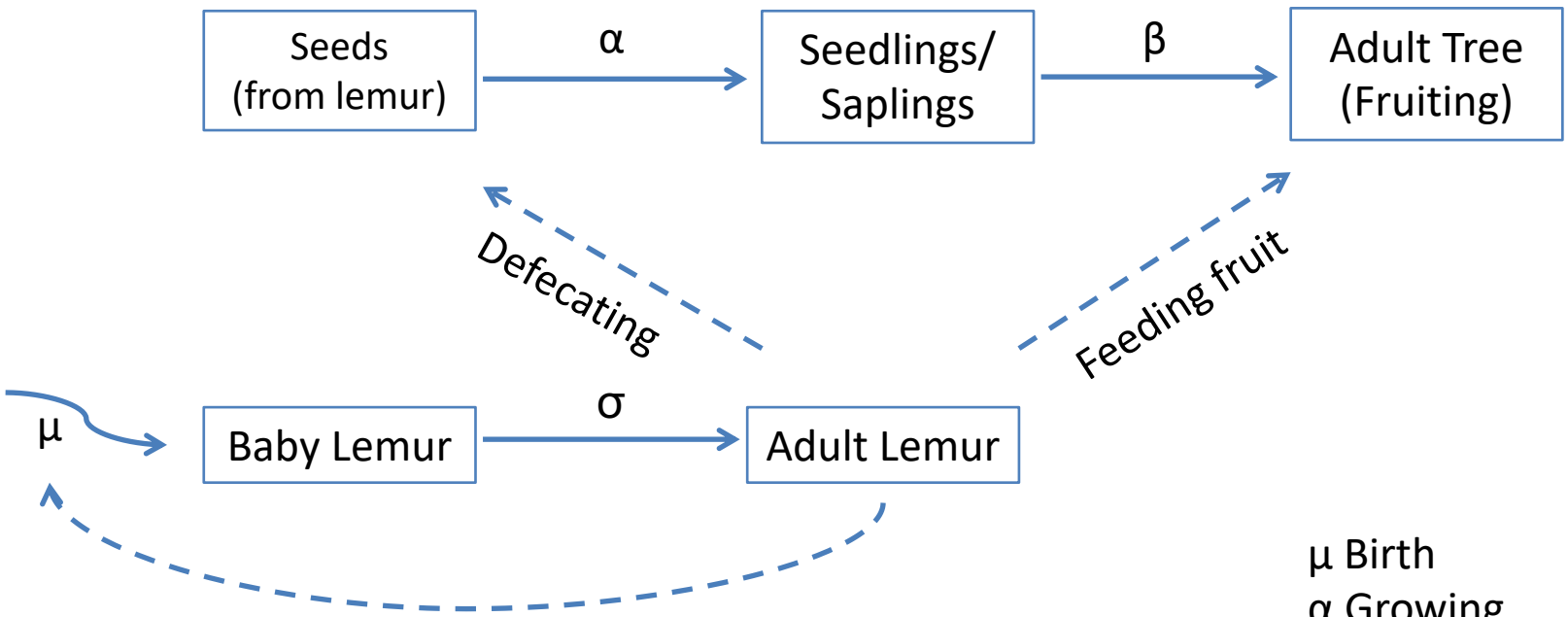
DATA

Lemur survey: Follow Varecia from the earler time to sleeping time and Record

- all movement each 15min,
- feeding time,
- defecating time,
- tree eaten ID,
- number of days of survey

FAMILY: poisson, Link: log

How does *Varecia variegata* seed dispersal through defecation affect plant communities composition?



μ Birth
α Growing
β Growing
σ Growing

Next Steps:

To better account for variation between groups: Finish the lemur follow for third group of *Varecia variegata*

To compare across species: Extend this study into other frugivore lemur species

To assess the importance of lemurs in the dynamics of Malagasy forests: Determine the influence of plant-frugivore interactions on plant fitness