

Effect of habitat loss and fragmentation on highland central forest chameleons

Case of the Special Reserve of Ambohitantely

Background

- Restricted distribution range
- Sensitive to forest disturbance

Statistical question

What is the relationship between species richness and fragments size?

Mechanic question

How does chameleons densities change over forest sizes?



Calumma gastrotaenia - male
Perinet, Madagascar
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Calumma gastrotaenia **LC**

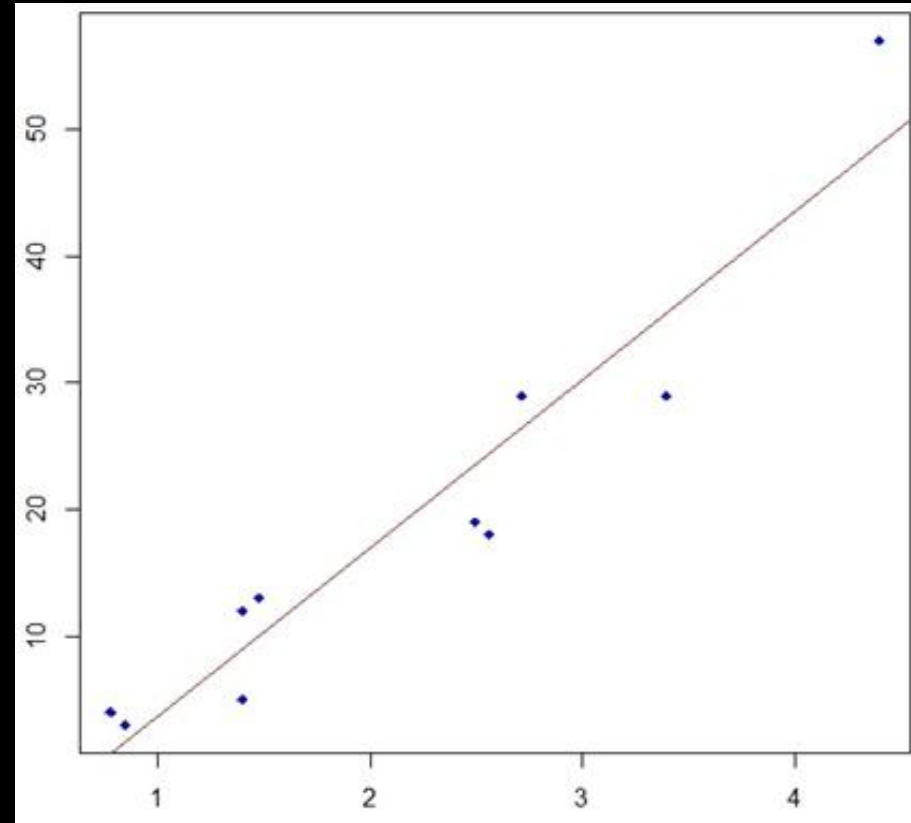


Calumma globifer **EN**

Statistical

What is the relationship between species richness and fragments size?

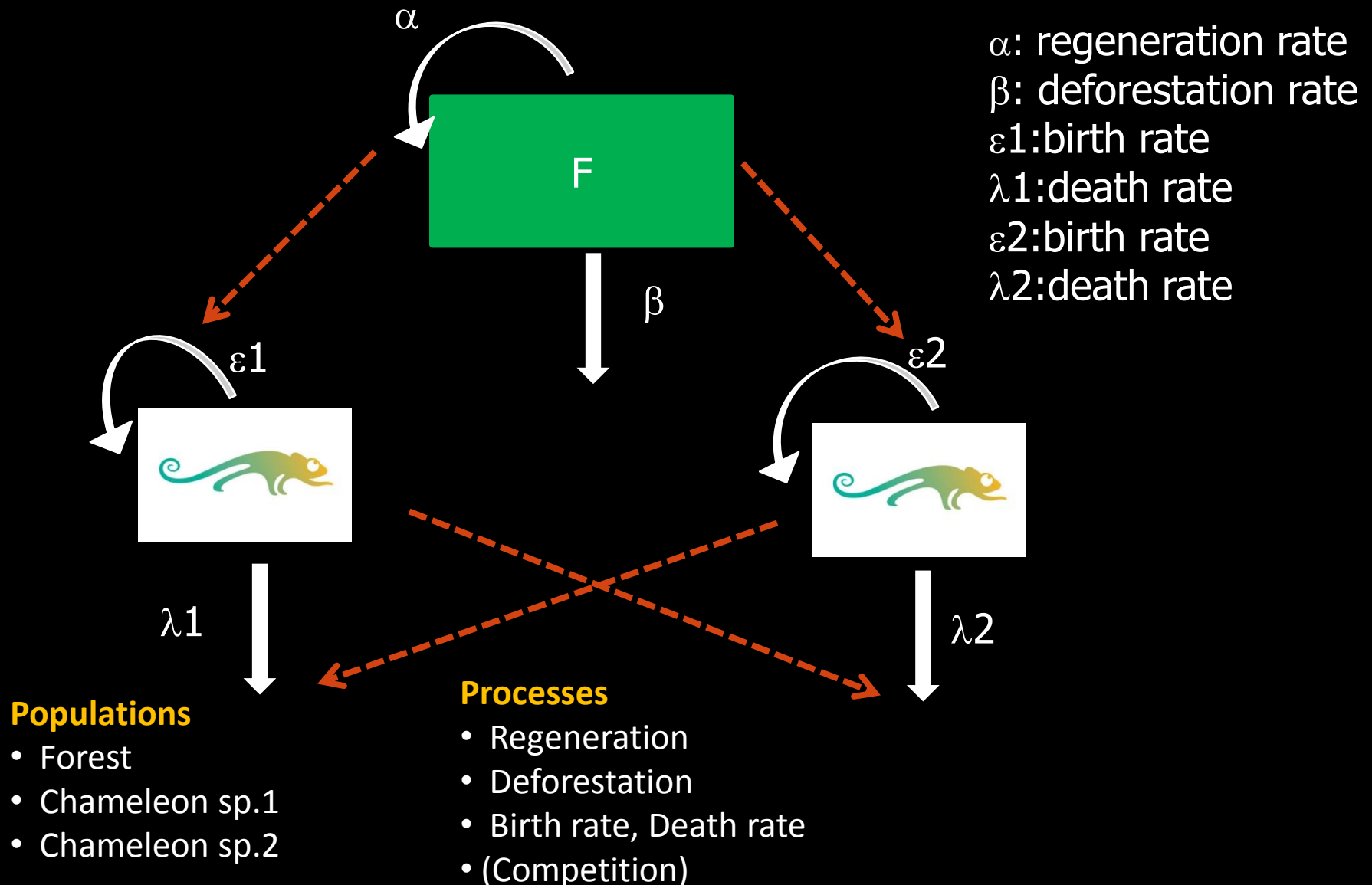
- Y :species richness
- X : fragments size
- Distribution : Poisson
- Link : Nat Log
- Function : Linear regression



- `Patch4 <- glm(Species richness ~ Fragments size, family='Poisson')`

Mechanistic

How does chameleons densities change over forest sizes?



Next Step

- Data collection in other patch of forest and Data analysis
- Examine the degree to which differences in species' traits can explain variation in response to habitat change
- Analyze the effects of forest fragmentation on genetic variability

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