Instituto de Ecología y Sistemática
AMA, CITMA

Thermal ecology of the *Anolis rubribarbus* species group (Reptilia: Dactyloidae)

Lic. Rachel Batista Alvarez

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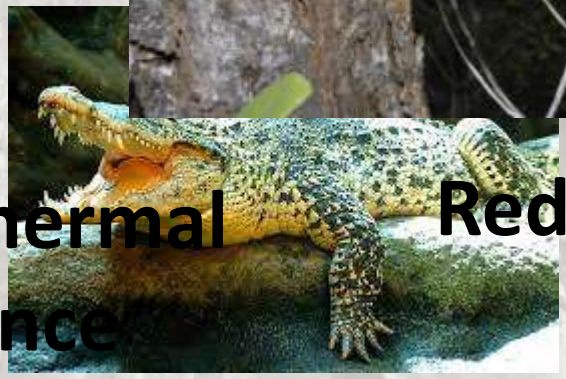

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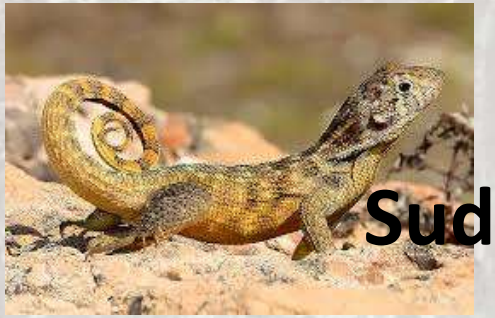
Reduced acclimatization capacity



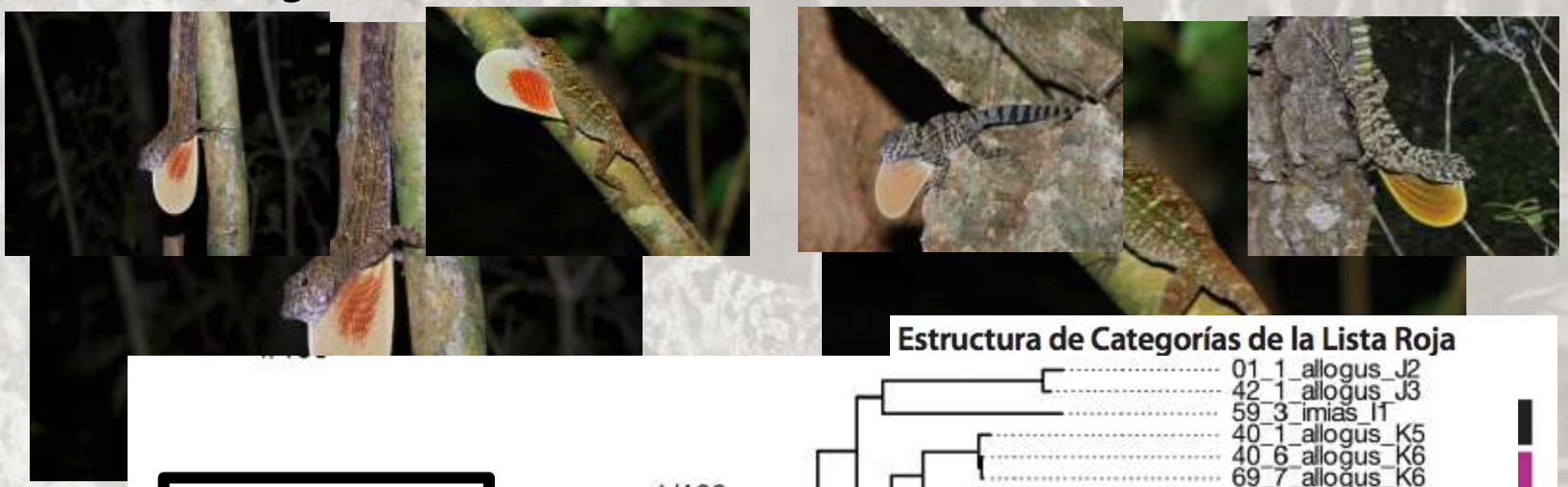
Sudden changes in temperature

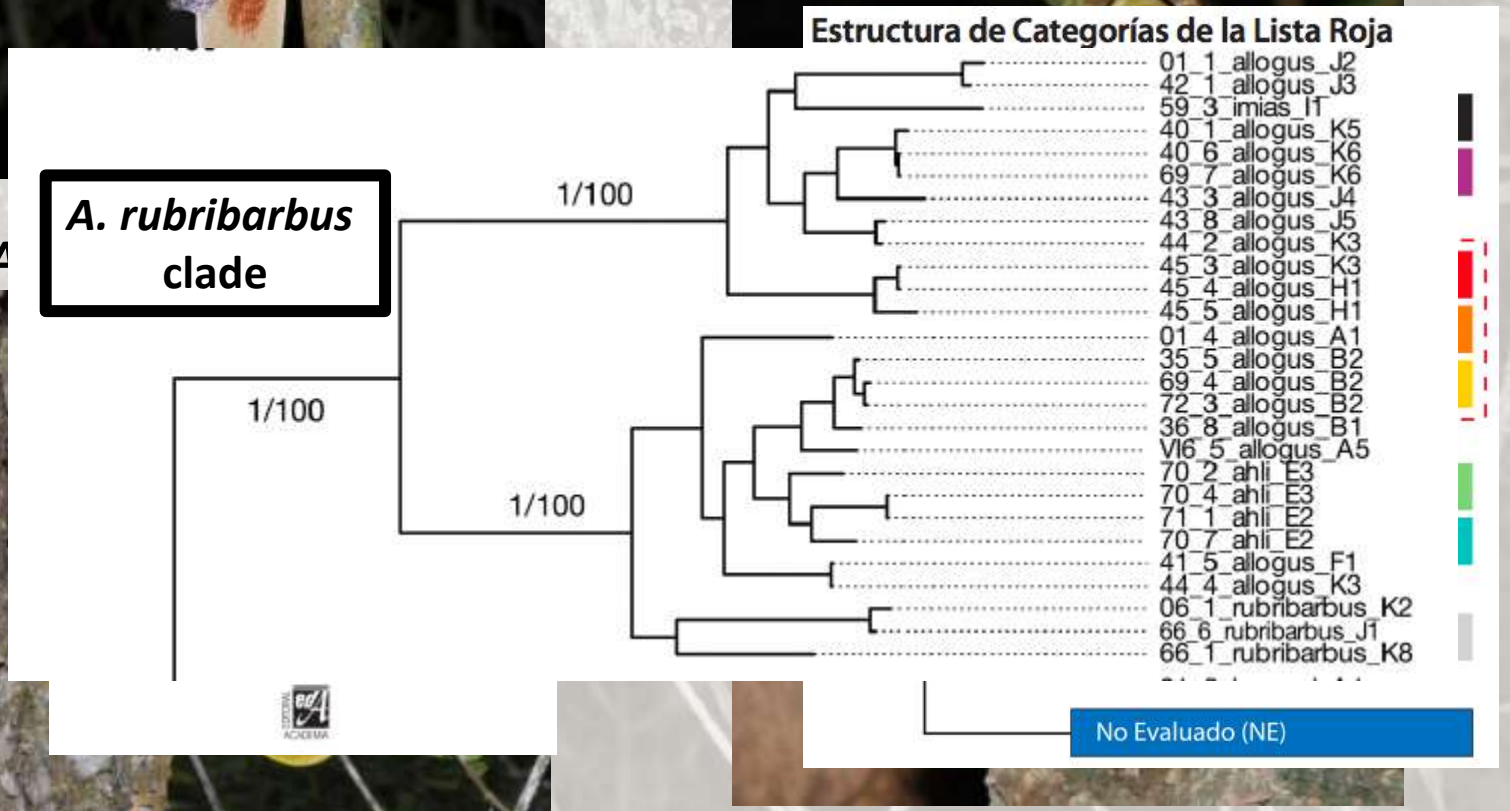
Decline and extinction

40%
95%

Anolis rubribarbus clade

Anolis allogus *Anolis ahli* *Anolis imias* *Anolis ahli* *Anolis rubribarbus*





Anolis rubribarbus clade

Anolis allogus

Anolis ahli

Anolis imias

Anolis rubribarbus

- Shady microhabitats
- Relative low temperatures
- High relative humidity

Thermoconforming species

- Homogeneous air temperature
- Scarce sun patches

Thermoregulation

↙ Limited

↘ Expensive

Sympatric species
Clade *Anolis rubribarbus*

Extreme habitats

Rainforests

Semi-desertic areas associated to caves

Hypothesis:

The *Anolis rubribarbus* clade has discrete thermal preferences and adaptative responses to different temperature ranges.

Objetive:

To compare the thermal ecology of the four species in this *clade.*

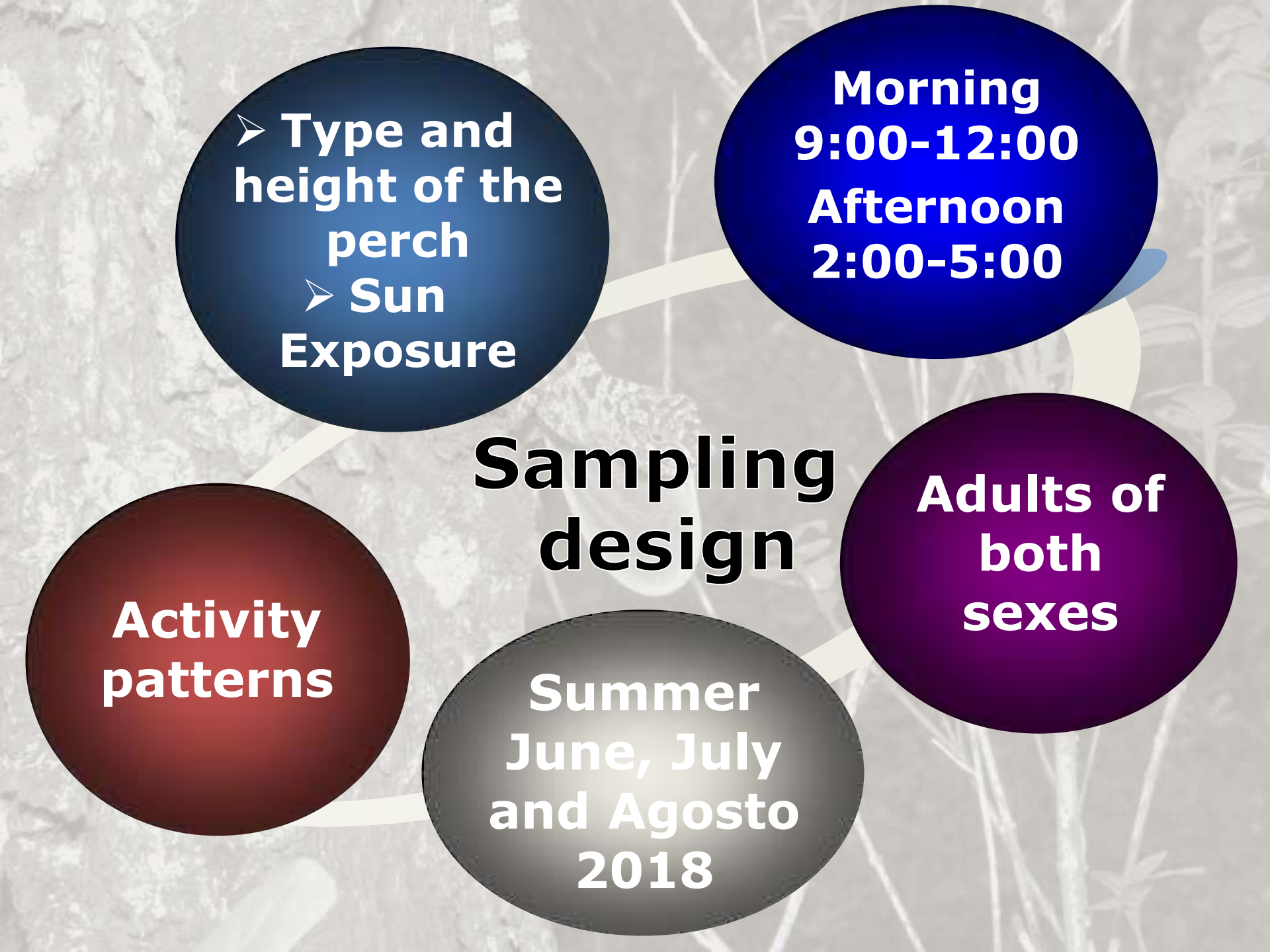
Study area

- Sierra del Rosario, Pinar del Rio

- Humbort Park, Guantánamo

- Topes de Collante, [illegible]us

- Macambo, Guantánamo


➢ Type and height of the perch
➢ Sun Exposure
Morning 9:00-12:00
Afternoon 2:00-5:00
Sampling design
Adults of both sexes
Activity patterns
Summer June, July and Agosto 2018

Sampling design

- Cloacal Temperature

- Air Temperature *in situ*

- Substrate temperature

- Light intensity in situ

Sampling design

Data loggers HOBO-U23

- Relative humidity
- Air temperature

Data logger HOBO-UA

- Light intensity

Prediction

Despite the selected species occur in shadow conditions they are adapted to habitats with extreme ranges of temperatures. For this reason, it is expected that they have developed different ecological strategies and genetic responses to their respective thermal environments.

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Thank you