



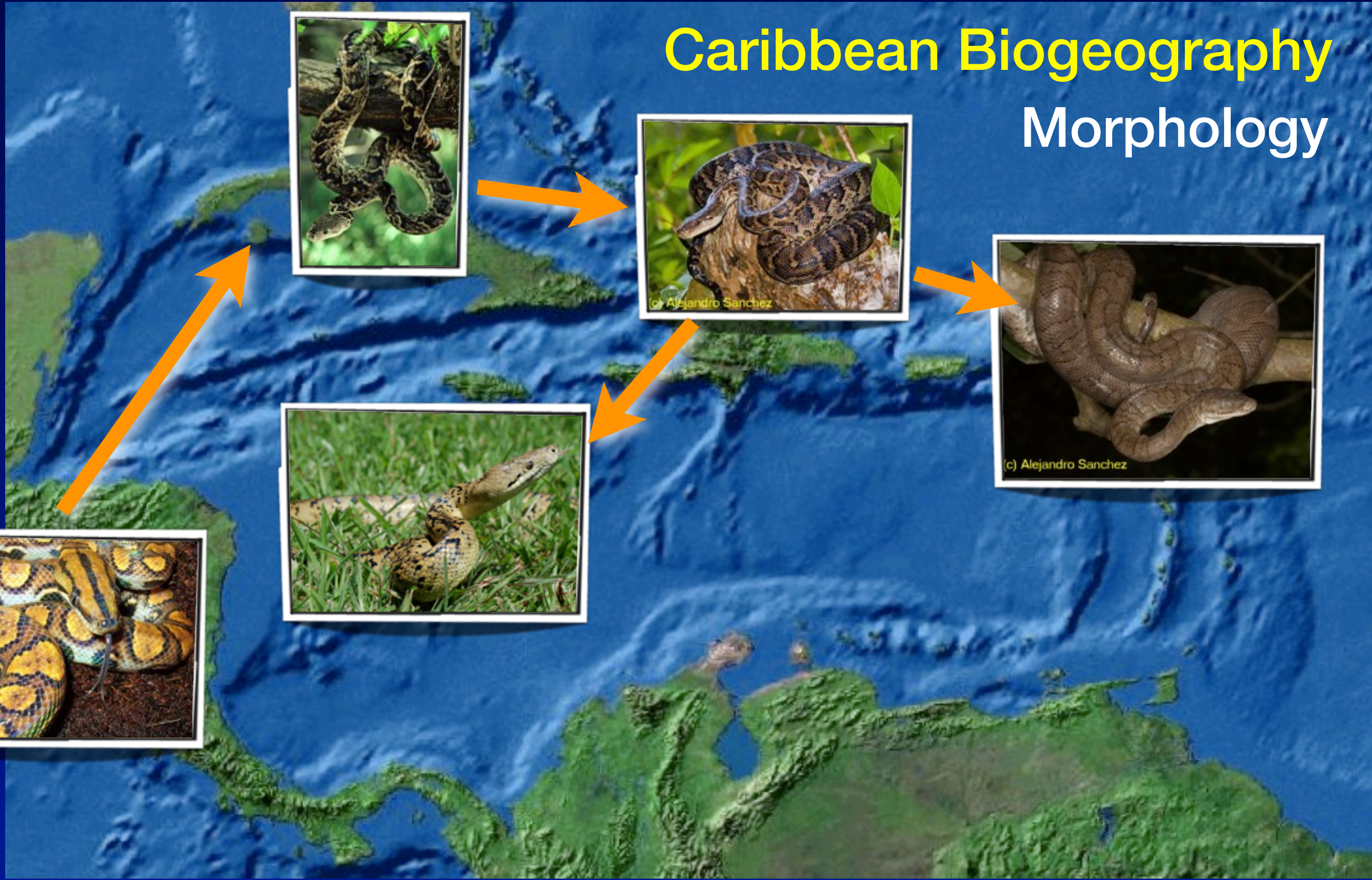
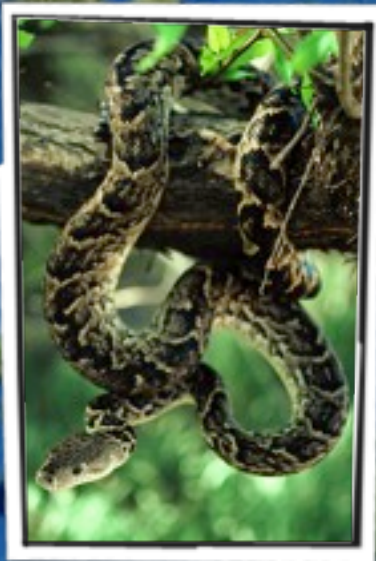
**Genetics of the  
Jamaican Boa  
*Epicrates [Chilabothrus] subflavus*  
(Stejneger 1901)**

Susan Koenig, DFES  
windsor@cwjamaica.com

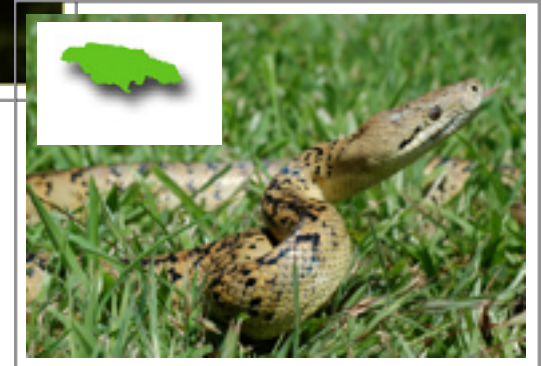
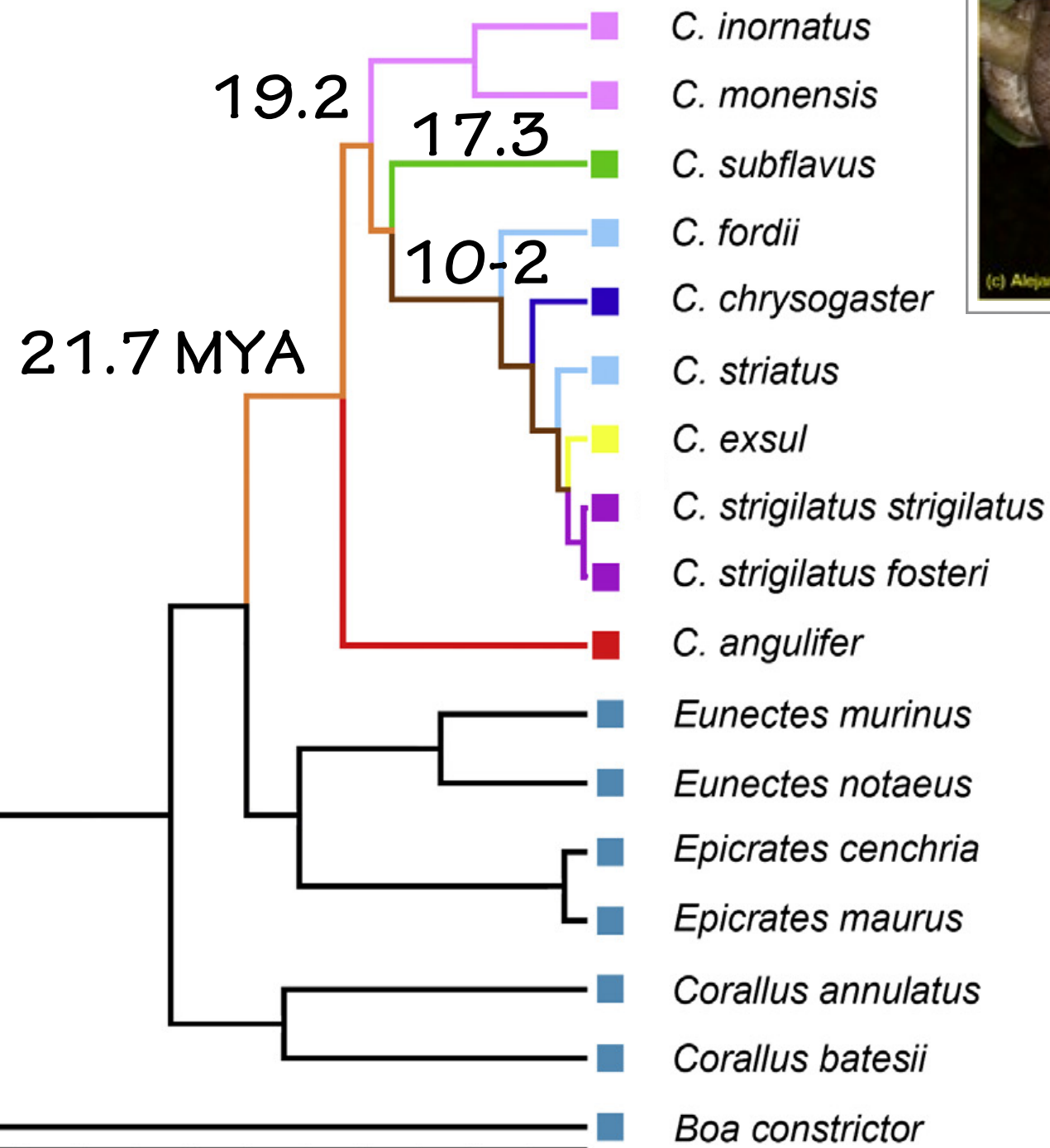


# Caribbean Biogeography

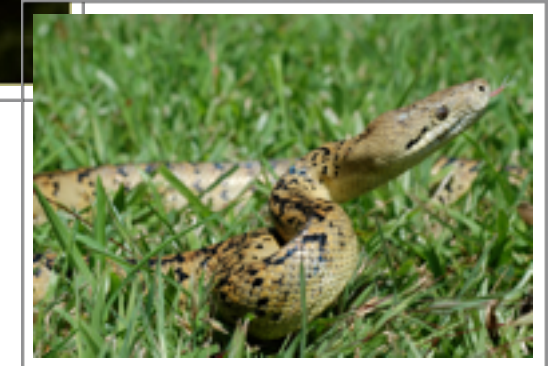
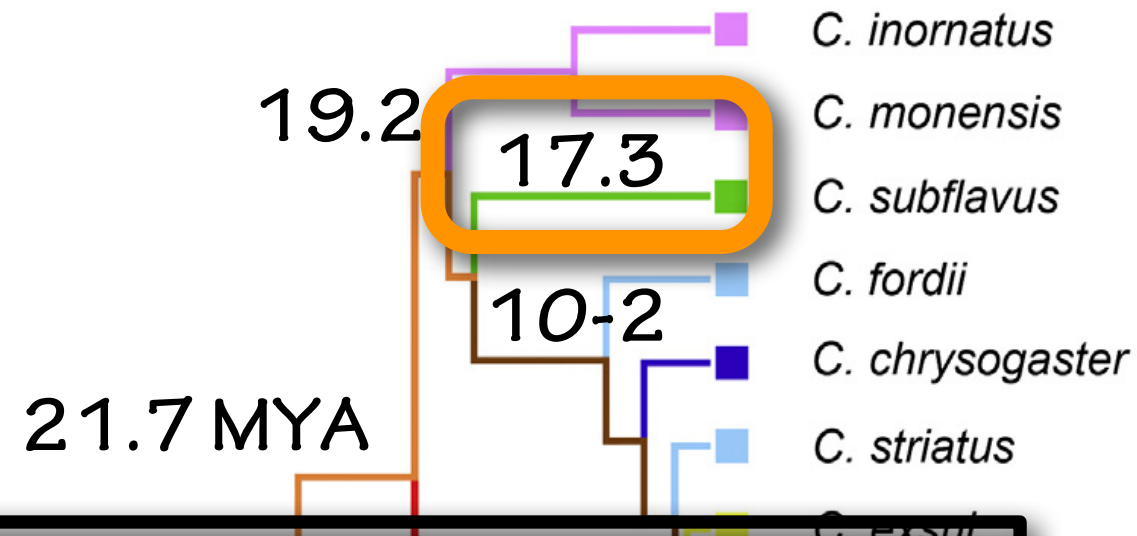
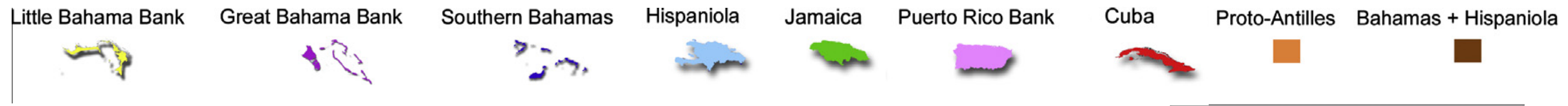
## Morphology



# DNA Analyses

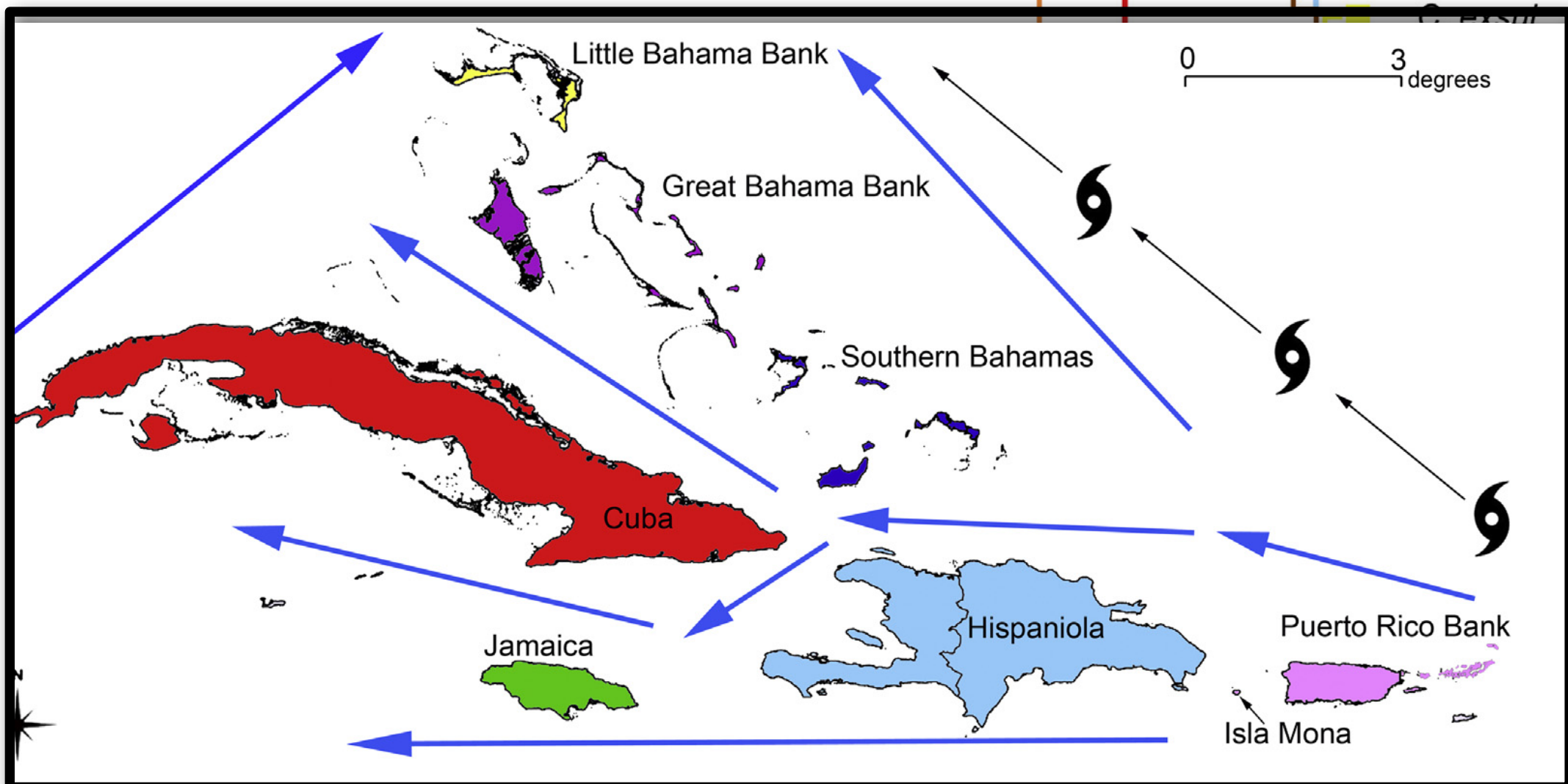


# DNA Analyses



- C. strigilatus*
- C. fosteri*
- C. murinus*
- C. notaeus*
- C. cenchria*
- C. maurus*
- C. annulatus*
- C. atesii*
- C. rictor*

et al. / Molecular Phylogenetics and Evolution 68 (2013) 461–470



# Adaptive Radiation & Speciation in Jamaica



1 ancestral *Eleutherodactylus*

20 Million Years



17 Jamaican endemics



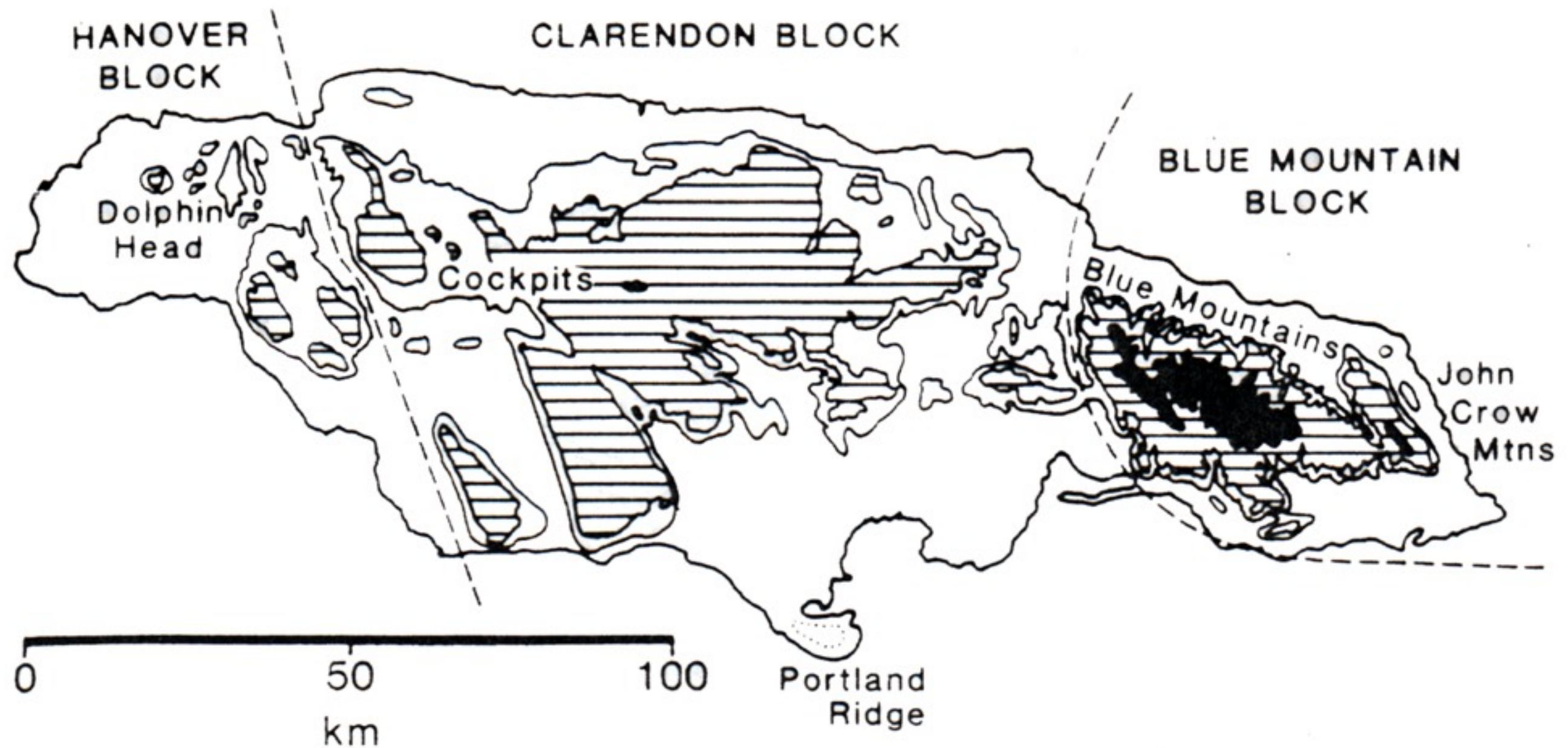
1 ancestral marine crab

5 Million Years

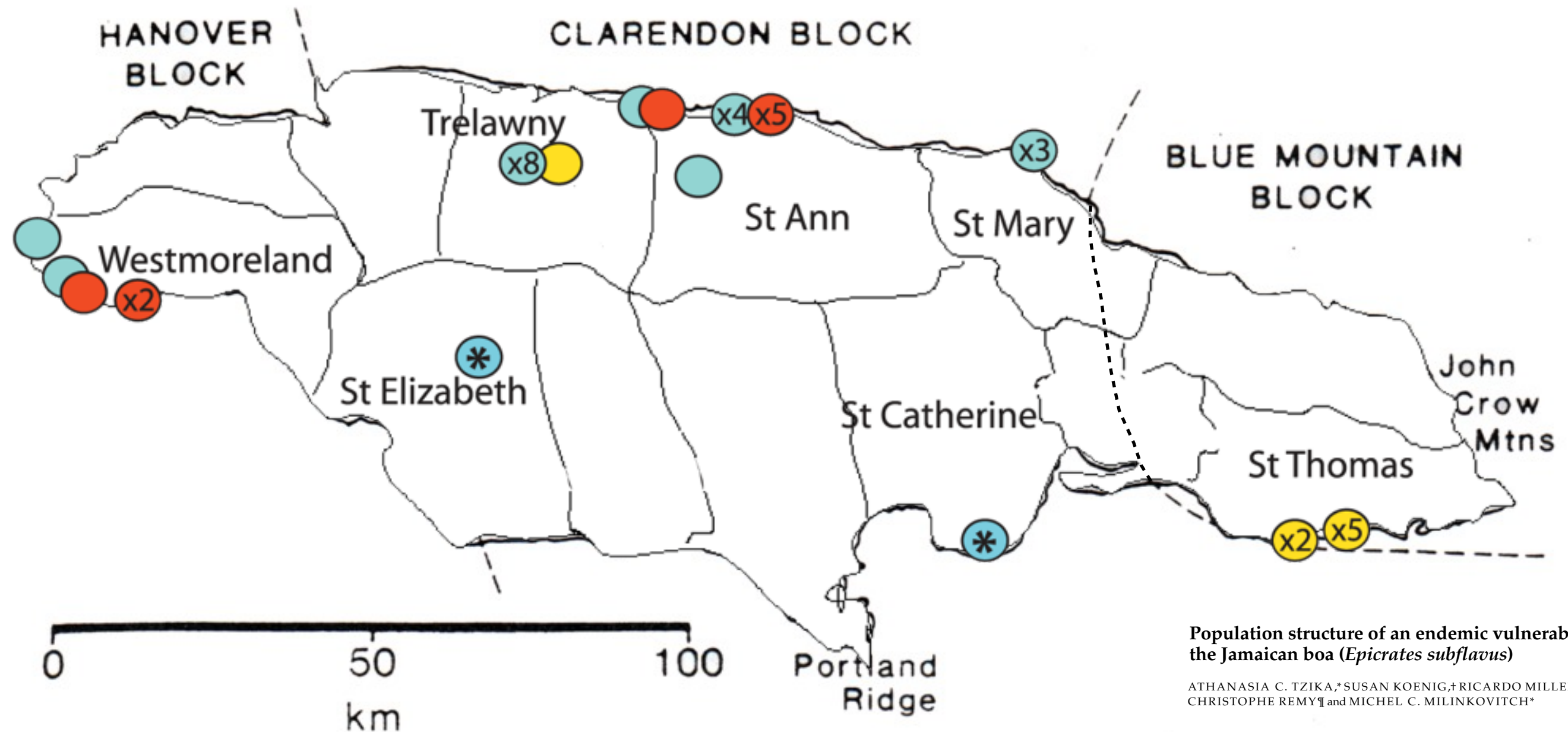
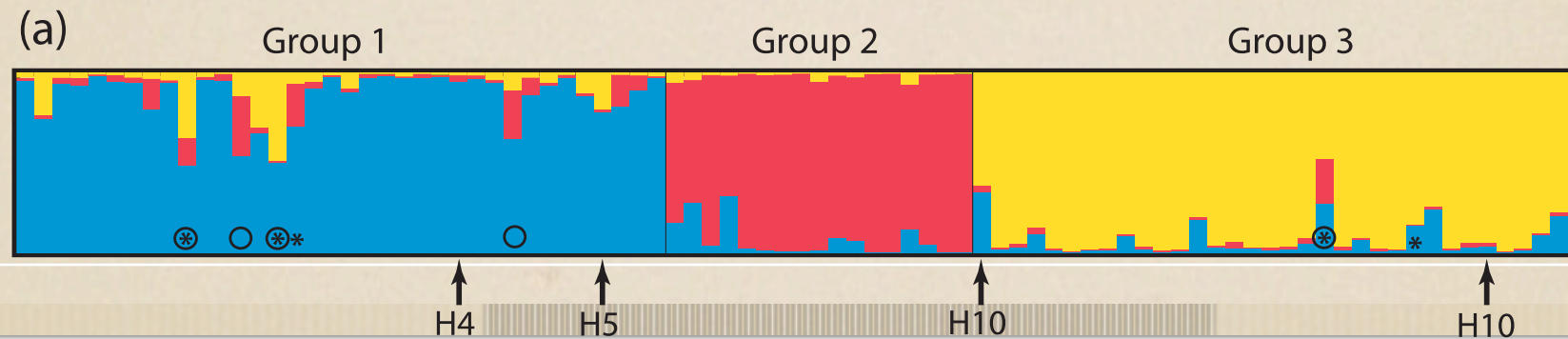


10 (poss 12)  
endemic  
freshwater crabs

# Distribution Patterns of Endemism



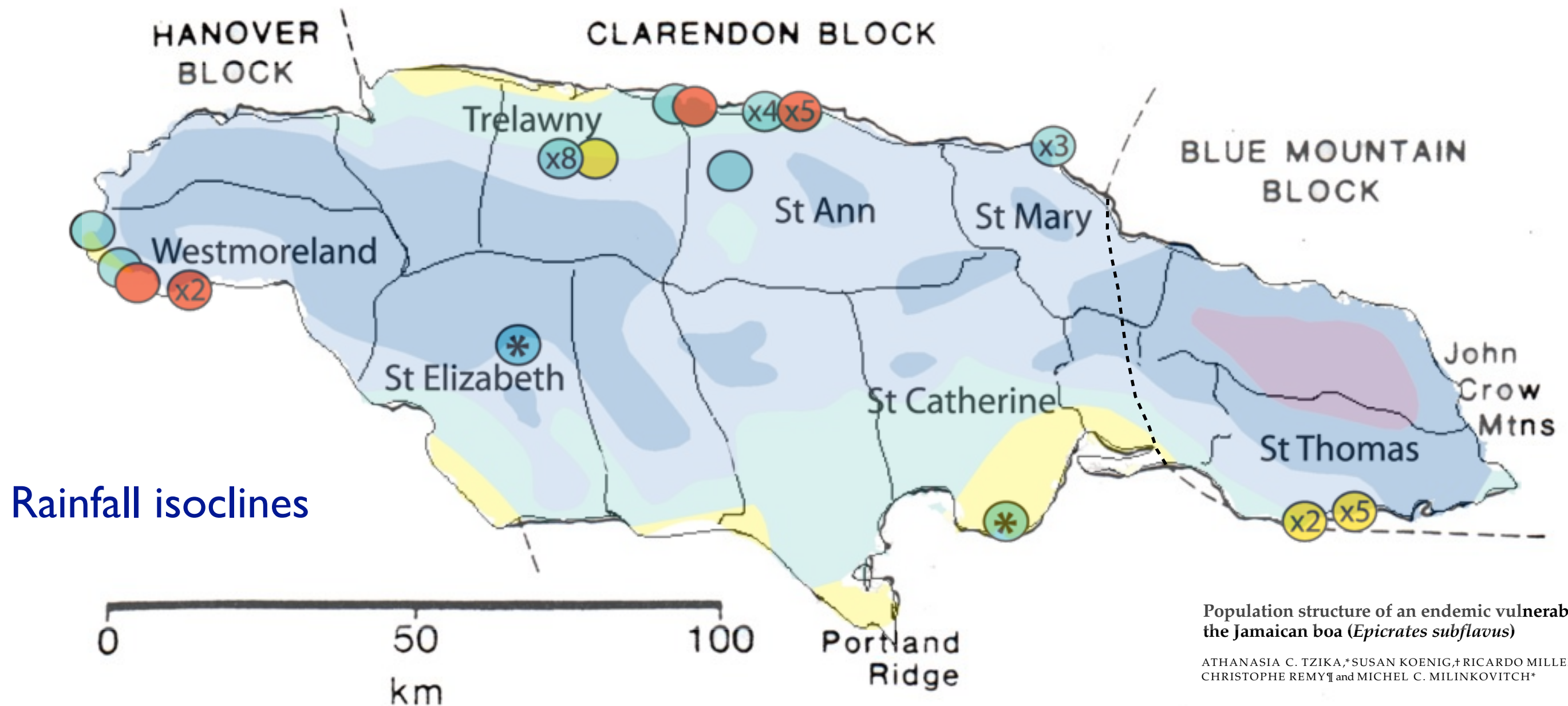
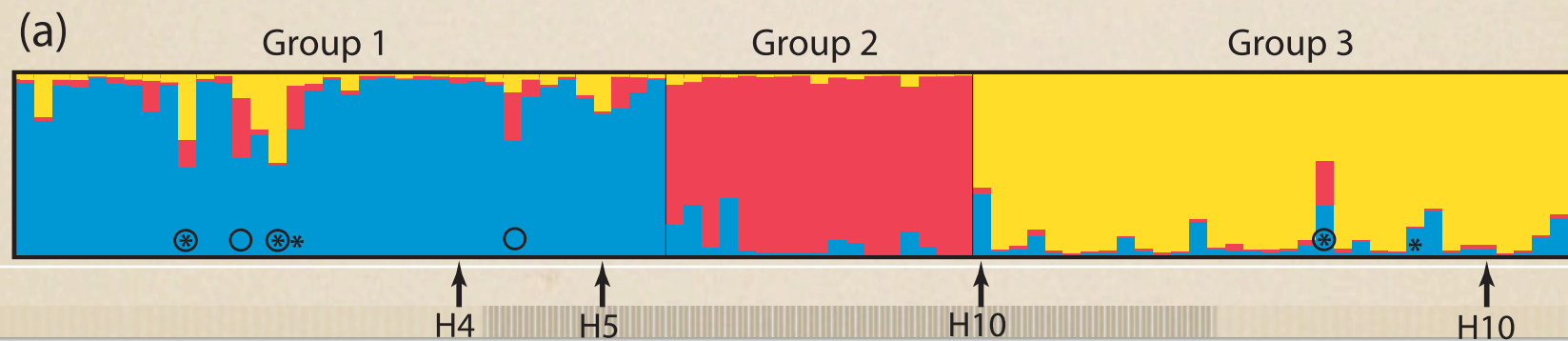
# Jamaican Boa Haplogroups



Population structure of an endemic vulnerable species, the Jamaican boa (*Epicrates subflavus*)

ATHANASIA C. TZIKA,\* SUSAN KOENIG,† RICARDO MILLER,‡ GERARDO GARCIA,§ CHRISTOPHE REMY¶ and MICHEL C. MILINKOVITCH\*

# Jamaican Boa Haplogroups

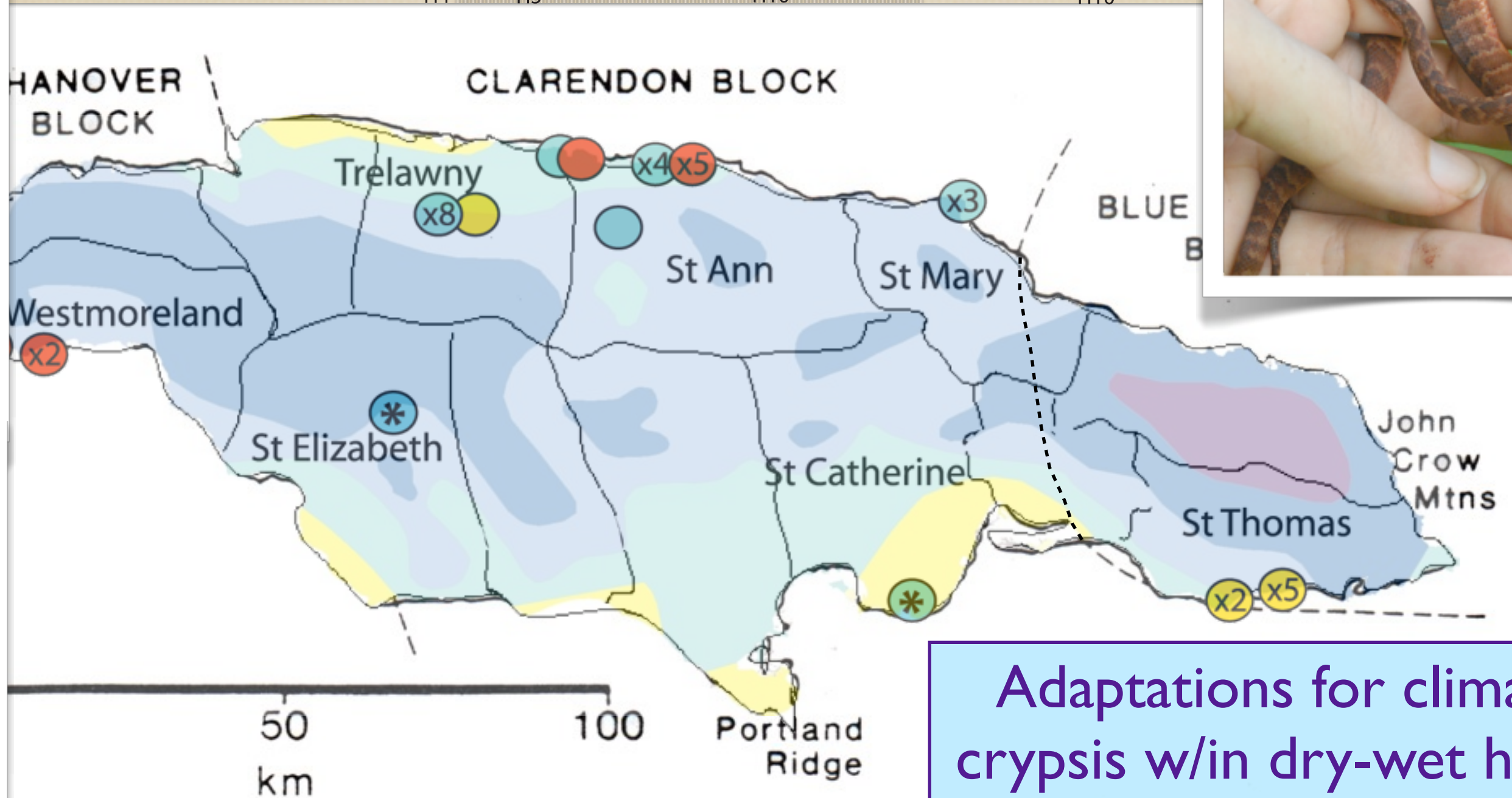
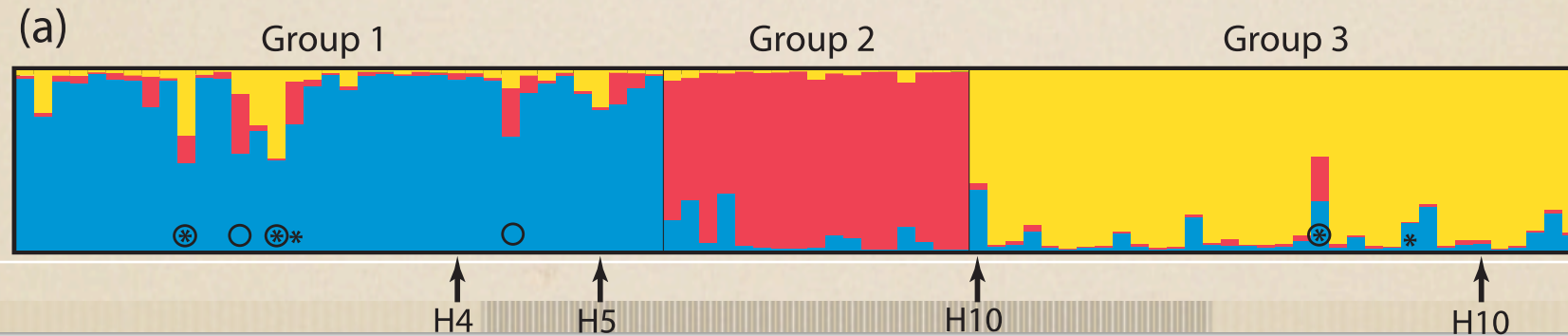


Population structure of an endemic vulnerable species, the Jamaican boa (*Epicrates subflavus*)

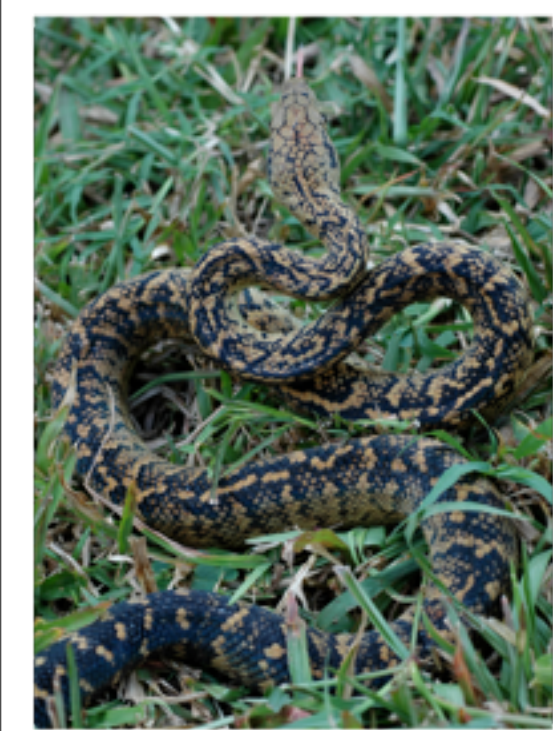
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# Jamaican Boa Haplogroups



Adaptations for climate or crypsis w/in dry-wet habitats?



# The Unintended Consequences of Transporting Animals:

## Diseases, Behaviour, and Genetics

### Snake scare in Quarry

Special Investigator 24/01/2014 15:36:00

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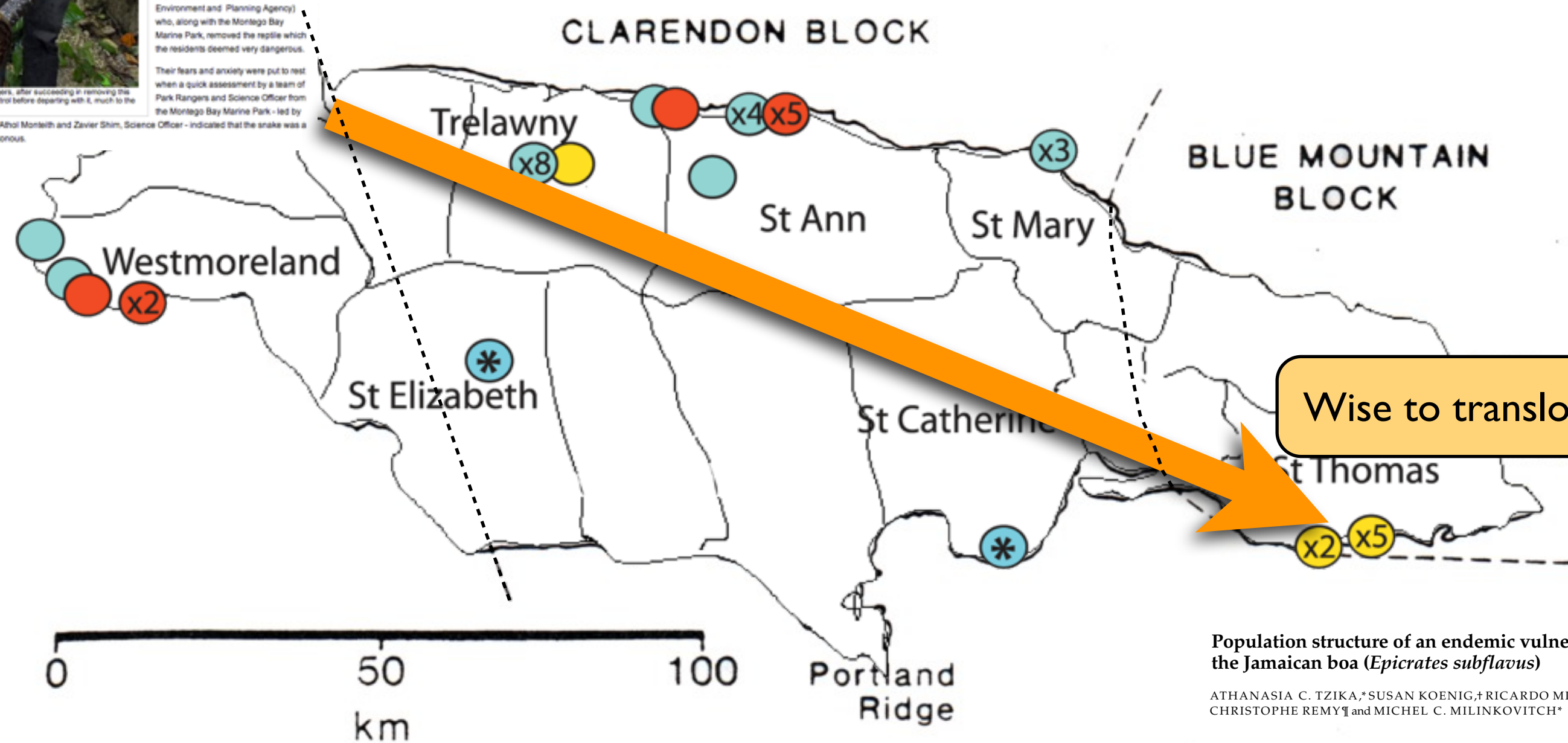
Scores of curious onlookers (residents) from the community of Quarry, leading off the Salt Spring main road in Montego Bay, yesterday afternoon converged on a section of that community eagerly trying to get a glimpse of the over eight-foot-long snake discovered in a yard wrapped around a banana tree which eventually broke and the reptile took refuge in an ackee tree.

The police were called in to render assistance. They, in turn, summoned experts from NEPA (National Environment and Planning Agency) who, along with the Montego Bay Marine Park, removed the reptile which the residents deemed very dangerous.

Their fears and anxiety were put to rest when a quick assessment by a team of Park Rangers and Science Officer from the Montego Bay Marine Park - led by

CAUGHT! Montego Bay Marine Park rangers, after succeeding in removing the snake from an ackee tree, get it under control before departing with it, much to the relief of residents.

Senior Ranger Wrenford Whittingham, Athol Monteith and Xavier Shim, Science Officer - indicated that the snake was a Jamaican Yellow Boa which is not poisonous.



Wise to translocate?

Population structure of an endemic vulnerable species, the Jamaican boa (*Epicrates subflavus*)

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# THANK YOU!



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