

## Lecture 8: NWM

SCPRF <http://scprf.ucsd.edu/SCPRFcurrent.html>

10 EC points for attending (sign-in there)

## Quiz clock

Minutes remaining: **ONE**

30 sec ...

5 4 3 2



**Indri**  
*Indri indri*



**Bandro & greater bamboo lemur**  
*(Hapalemur)*

### Some themes come up...

#### Female dominance

What leads to “female dominance”? **Energy frugality?**

**Why unusual?**

**Alternative interpretations?**

**How test them (if there are)?**

#### Comparisons:

- Degree female dominance in rich/poor parts of Madagascar.
- Are nocturnal primates elsewhere really female-dominant?

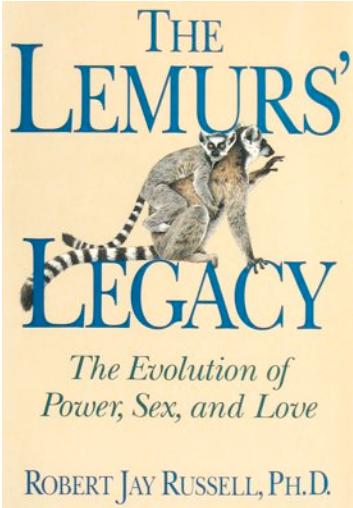
- Evolutionary disequilibrium (loss of giant lemurs, 3 eagles, giant ‘fossa’).
- Modern lemurs were nocturnal 1,500 years ago.
- Monogamous/solitary; sociality seen today is new.

Many variables (inc. geology, climate); what’s not there (megafauna); comparisons as ‘natural experiments’

And this just in from a friend, Erik Patel...

<http://beta.mnet.co.za/mnetvideo/browseVideo.aspx?vid=25569>

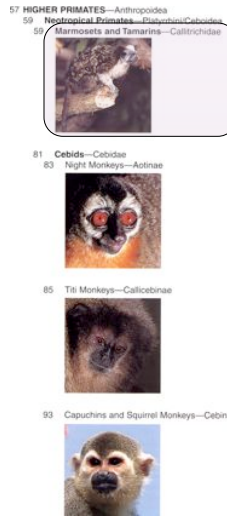
Silky sifakas and rosewood. Are we going to lose *more* large primates from Madagascar?



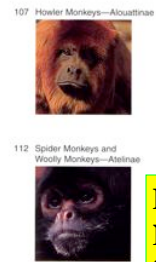
We ***DON'T*** have a “New World Monkey’s legacy”

So what can we learn, other than cool natural history?

Comparative method; what is basic to primates (e.g. female kin groups?)



New World monkeys [NWMs]

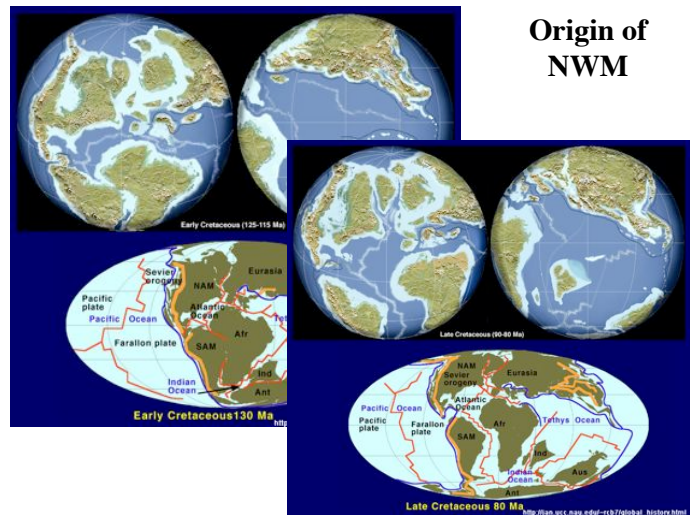


Marmosets & tamarins - the callitrichids

Diversity of NWM: how great is it, and why?



NWM distribution



Origin of NWM



Origin of NWM

~ 120 mya

Where did the rain go?



Exact waterways ?, but had to have been there. Strong current down proto-Congo (and proto-Amazon).

~130mya



~ 80 mya

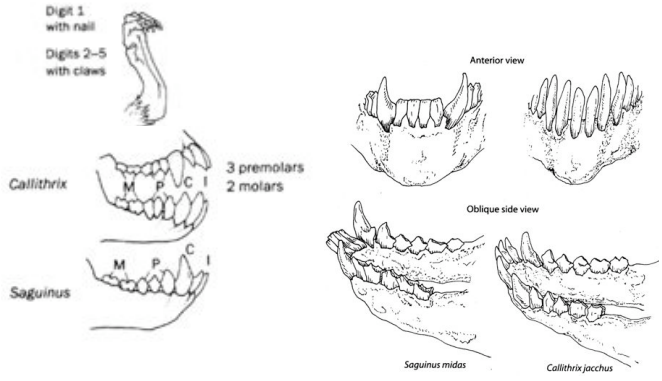


Callitrichids





### Callitrichids

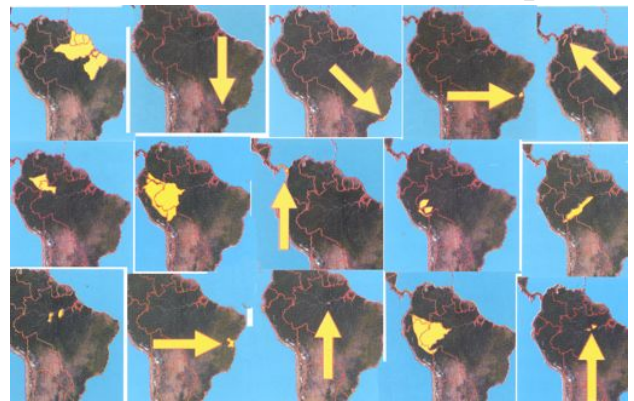


### Visual signaling



Pygmy marmoset (*Cebuella*), tassel-eared marmosets (*Callitrich*)  
BBC Cousins: The monkeys

### Callitrichid distribution maps



### Callitrichid distribution maps

