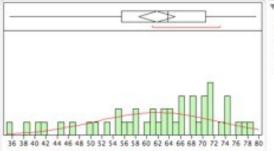
ANTH 42: Chimpanzees, bonobos; cognition

Review session Thursday 5-7pm Will be question-driven. Reminder, final is based on lectures.



▼ Moments	
Mean	61.793478
Std Dev	10.962094
Std Err Mean	1.6162726
upper 95% Mean	65.048818
lower 95% Mean	58.538138
N	46

Does NOT include quiz # 16.

Low end: 2 SD < mean, but no clear gaps. ? Grade.

Quiz clock

Minutes remaining: ONE

30 sec ...

http://blogs.discovermagazine.com/intersection/2010/05/27/why-bonobos-will-save-the-world/

Blogs / The Intersection

Bonobo Week at the Intersection Starts Today: Announcing Guest Blogger Vanessa Woods UVA Fights Back Against Cuccinelli

Why Bonobos Will Save the World

B E F S

by Chris Mooney

This is a guest post from Vanessa Woods, author of the new "will" is a big book, Bonobo Handshake. Vanessa is a Research Scientist in Evolutionary Anthropology at Duke University and studies the cognition of chimpanzees and bonobos in Congo.

To go from

"could" to

step ...

When I wake up this morning, someone might try to kill me. I live 10 minutes from a small town called Durham, NC, where according to the last statistics, 22 people were killed, 76 women were raped, and there were 682 cases of aggravated assault. When a chimpanzee wakes up in the morning, they probably have the same thought. In fact, if you're a male chimpanzee, you're more likely to be killed by another chimpanzee than anything else. If you're a female chimpanzee, expect to be beaten by every adolescent male who is making his way up through the ranks.

People often ask me why humans are so intelligent, as in, wi

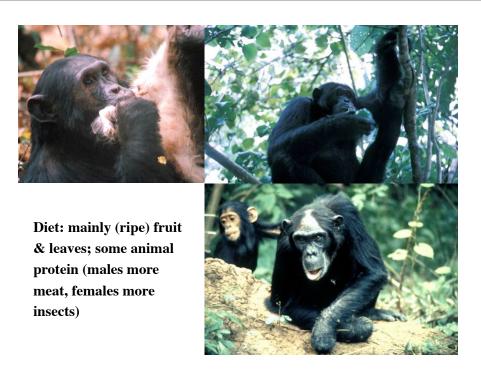


Stumble! 1 . mint by



Bit of introduction ...

BBC Cousins: Apes





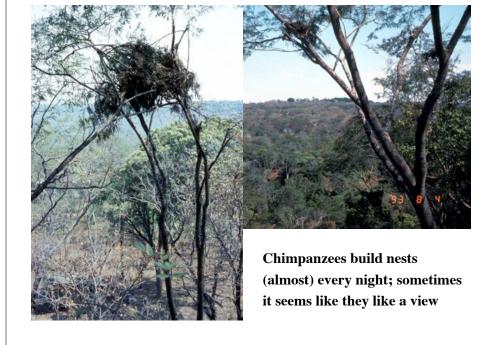
Left: Athena stole this bushbuck fawn from an adult male baboon. The discovery that chimpanzees sometimes eat meat and may hunt cooperatively and share the kill was one of the early revelations of the research at Gombe. (L. Goldman)

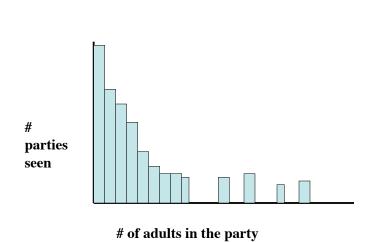
Some reason to think this driven by difficulty of hunting with a baby on board; like meat when can get it.

So is there an innate sex difference in predatory behavior?







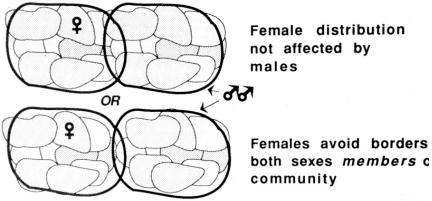


Chimpanzees spend a lot of time alone, but join up in "parties" - fission-fusion social system

Females (yellow) more often solitary. # of adults in the party

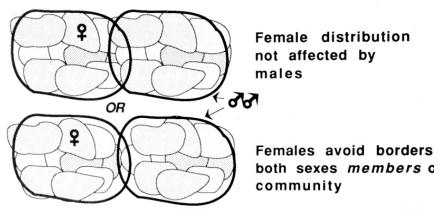
Chimpanzees spend a lot of time alone, but join up in "parties" - fission-fusion social system

Chimpanzee community structure



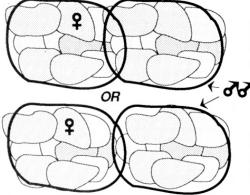
There is still debate about the "real" structure of chimpanzee society -- maybe it varies. At Taï, party size large, most of community may travel together fairly often. At Gombe, almost never get most together.

Chimpanzee community structure



In some ways chimpanzees are less social than the majority of primates, spending more time alone; BUT their relationships are important, intense, and long-lasting. So - define 'social'?

Chimpanzee community structure

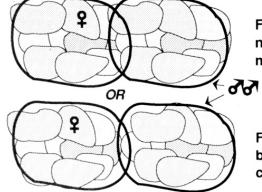


Female distribution not affected by males

Females avoid borders both sexes *members* community

Chimpanzee-bonobo difference driven by distribution of food; bonobos don't have to fission so much, so parties larger, more stable; elaborated mechanisms for regulate tension.

Chimpanzee community structure



Female distribution not affected by males

Females avoid borders both sexes *members* c community

How does this chimpanzee-bonobo difference remind you of orangutans?

Consequence

of fission-

fusion +

territoriality

= "imbalance of power" hypothesis



Best estimate is that about 30% of male chimpanzees are killed by other males.

This is about the same as for humans in traditional horticultural/pastoral societies.

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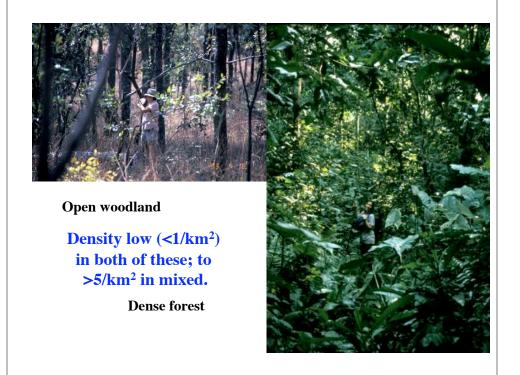
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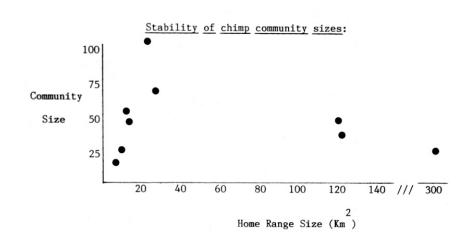
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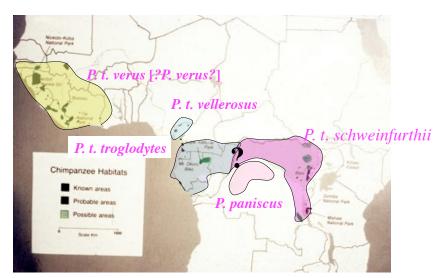
Prediction: other ripefruit specialist, fissionfusion species should also practice lethal raiding. Ateles (maybe: no killings seen).

Chimps: The Dark Side





Chimpanzee communities are mostly about 50 individuals maybe 8-12 adult males, 15± adult females, & all the kids.



Chimpanzees (1986)

Chimpanzee conservation status

come from?

Where do these numbers

Estimating ape populations

so not done all that often

over country-wide scales.

in the field. Labor-intensive.

2004 IUCN Report on the status of West African chimpanzees (P. t. verus) summarized populations:

P. t. verus:

21 -- 56,000

P. t. velerosus:

5 -- 8,000

P. t. troglodytes:

70 -- 116,000

P. t. schweinfurthii:

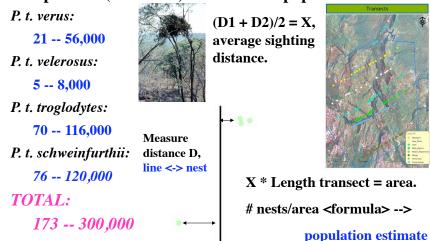
76 -- 120,000

TOTAL:

173 -- 300,000

Chimpanzee conservation status

2004 IUCN Report on the status of West African chimpanzees (P. t. verus) summarized populations:



Chimpanzee conservation status

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P. t. verus:

21 -- 56,000

Cotê d'Ivoire had 8 - 12,000 - as much as 50% - based 1° on survey done in 1989-90.

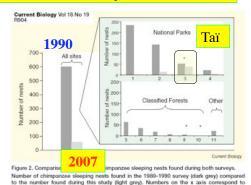
2008 report on repeat of that survey in 2007:

Human population increase in Cotê d'Ivoire:

1990: 12 million

2008: 18 million

Civil unrest since 2002.



study sites, following the legend in Figure 1. The star symbol indicates the sites for which the decrease was not significant according to the binomial test. Compared at al. (2009)

BEHAVIOR Mating:

promiscuous - majority of copulations

competitive

"safari" consortships - small % of copulations, but per-copulation much higher conception rate

Chimpanzee conservation status

Bonobos (*P. paniscus*):

Found only in Democratic Republic of Congo, which has been convulsed by one war after another since the mid-90s.

Estimates range 15 - 50,000, but the estimates date from ~ 2000, using data collected previously.

Nobody knows.