**Title: Taxonomy and Acoustics**

What we look for in echolocation:

1. Unique
2. Measurable (repeateablity)
3. Intra versus inter variations

Expected call data:

* Limited in rhino and hippos (problem can be encounter in geographic variations)
* Overlap of some measurements variables (edge/
* Substantial overlap in FM bats (kerivoula, Murina)

Measurements, what and how:

CF Bats (Rhino and Hippos):

* Record in hands (because dopler shift)
* Use full spectrum
* Watch sampling rate
* Measure – peak frequency
* Focussing in Hippos, need to be able to record higher frequencies (sampling rate + microphone response)

Broadband and FM bats (Kerivoulinae and murinae):

* Hard to get repeatable
* Full spectrum with flat response
* Flight cage recording
* Start , end and duration frequency

Broadband multiharmonic bats Megadermatidae and Nycteridae:

* Very little known
* Full spectrum with flat response
* Flight cage recording
* Start , end and duration frequency

CF-FM calls (open-space, edge/gaps bats) Mossidae, Embalonuridae, other vespers)

Call changes a lot depending context

* Full spectrum with flat response
* Zip line