



KONINKLIJK MUSEUM
VOOR MIDDEN-AFRIKA
MUSÉE ROYAL
DE L'AFRIQUE CENTRALE



CONGO NETWORK

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CSB-UNIKIS

BAT SAMPLING DURING BOYEKOLI EBALE CONGO 2010

By

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AVEC LE SUPPORT DE
LA COOPÉRATION
BELGE AU DÉVELOPPEMENT .be



INTRODUCTION

➤ Congolese lowland forests have rich biodiversity

➡ Lack of recent scientific studies in area

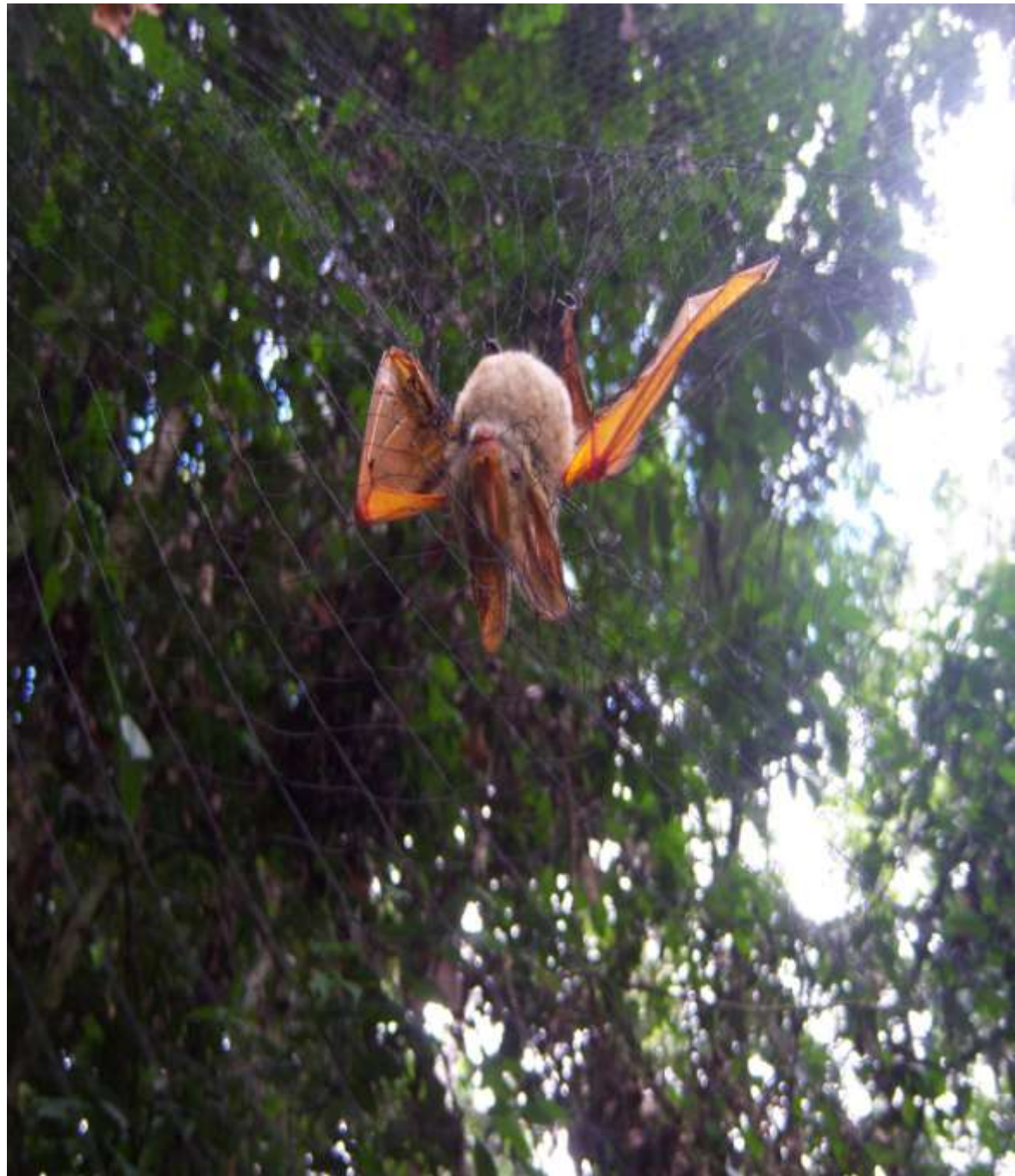
1° Aellen, Lang & Chapin (1917), Frechkop 1938-1954, Schouteden (1948); 2° Rham & al (1966), Ifuta (1993)

➤ Flora and fauna increasingly exploited on Kisangani-Mbandaka section (Congo river)

➡ Unsustainable exploitation

GOALS

- ❖ Study importance of bat biodiversity and its specific richness
- ❖ Describe the composition of bat communities in area
- ❖ Update the information on area fauna



METHODS

❖ Mist-netting
(12, 8 & 6 meters)



❖ Identification



❖ Measurement



❖ DNA sampling



RESULTS (1)

1. CAPTURE EFFORT (CE)= 7129,2/594,1

LOCALITY	6 meters Hours/ nights (13)	9 meters Hours/ nights (3)	12 meters Hours/ nights (16)	Total Hours/ nights
YAEKELA	1092/91	253/21	1344/112	2079,8/173,3
KONA	1092/91	253/21	1344/112	2079,8/173,3
BOMANE	624/52	144/12	768/64	1188/99
LIEKI	936/78	216/18	1152/96	1782/148,5

RESULTS (2)

2. SAMPLING (CAPTURE) SUCCES (SC=NX100/CE)

LOCALITY	N	MEGA	MICRO	SC
YAEKELA	204	189	15	117,71
KONA	109	100	9	62,90
BOMANE	155	147	8	156,57
LIEKI	126	116	10	84,85
TOTAL	594	552	42	99,98

RESULTS (3)

3. MICROBATS COLLECTED (Start)

Species	YAEKELA	KONA	BOMANE	LIEKI	TOTAL
<i>Lavia frons</i>	1	0	0	0	1
<i>Myotis bocagei</i>	6	0	3	3	12
<i>Hipposideros cyclops</i>	5	1	0	2	8
<i>Hipposideros comersonni</i>	0	0	1	0	1
<i>Hipposideros cf beatus</i>	0	4	2	0	6
<i>Hipposideros sp</i>	0	0	0	2	2
<i>Mimetillus moloneyi</i>	1	0	0	0	1
<i>Rhinolophus sp</i>	2	2	0	1	5

RESULTS (4)

3. MICROBATS COLLECTED (End)

Species	YAEKELA	KONA	BOMANE	LIEKI	TOTAL
Rhinolophus cf fumigatus	0	1	0	0	1
Nycteris cf major	0	1	0	0	1
Nycteris arge	0	0	1	0	1
Taphozous mauritanus	0	0	1	0	1
Rhinolophus cf hildebrandti	0	0	0	2	2
TOTAL	15	9	8	10	42

RESULTS (4)

3. MEGABATS COLLECTED (Start)

Species	YAEKELA	KONA	BOMANE	LIEKI	TOTAL
<i>Casinycteris argynnis</i>	3	1	0	12	16
<i>Eidolon helvum</i>	3	0	1	0	4
<i>Epomops franqueti</i>	7	13	52	11	83
<i>Hypsignathus monstrosus</i>	1	1	1	0	3
<i>Megaloglossus woermanni</i>	7	46	26	29	108
<i>Myonycteris torquata</i>	168	39	67	59	333
<i>Scotonycteris zenkeri</i>	0	0	0	5	5
Total	189	100	147	116	552

PRELIMINARY CONCLUSIONS

- EC= 594, 1 netting night & SC: Boman ↔ Kona
- 594 bats (42 Microbats & 552 Megabats)
- 21 species (13 microbats species & 8 megabats)

- *Myonycteris torquata* (333 specimens),
Megaloglossus woermanni (108) & *Epomops franqueti* (83) abundant species

- Microbats abundant species: *Myotis bocagei* (12)
& *Hipposideros cyclops* (8)

RECOMMENDATIONS & PERSPECTIVES

1. SCIENTIFIC SEARCH

Explore & Continue search at Congo river section between Bumba-Kinshasa;

Encourage Congolese bats search (so Bat- pest- devastator- seeds disseminator)

2. SUSTAINABLE MANAGEMENT

Protection law for bats protection

Keep permanent watch on bats conservation

THANKS

UNIKIS



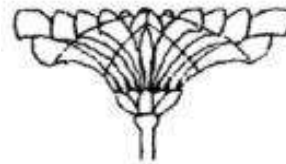
Kisangani, DRC

RMCA



Tervuren, Belgium

NBGB



Meise, Belgium

RBINSc



Brussels, Belgium