CONGO NETWORK

Workshop Kisangani

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CSB-UNIKIS

Boyekoli Ebale Congo 2010: BIRD'S Biodiversity Assessment

By

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BP 2012, Kisangani, RD Congo

AVEC LE SUPPORT DE LA COOPÉRATION BELGE AU DÉVELOPPEMENT .be

Context and justification

The Congo Basin Forest is the second largest humid tropical forest of the planet and contains a unique biodiversity

The preservation of such ecosystems is crucial for humanity, economic developpment of DRC population as well as for the political stability of the country.

Biodiversity in great threats :

Entire ecosystems are threatened by deforestation, poaching and/or overfishing

Very few recent information is available on biodiversity of lowland humid forests of DRC…

- **Multidisciplinary Expedition on the Congo River, between Kisangani and Bumba, from 01 mai to 03 juin 2010**

Capture locations

METHODS

Mist nesttings (6 , 9 and 12 meters) and direct observations (binoculars)

For each capture, mist location and bird high were recorded

Field guides for identification: Sinclair and Ryan (2003), Borrow ?
(Cfr Livre du CT Bapeamoni)

Data recorded: body weight (g), bill lenght and high, tail lenght, tarsus lenght, total lenght and envergure, sex, gonade states, moult, level of skull ossification and biopsies.

RESULTATS (Capture/1)

Espèce	YaeK	Kona	Mwe	Bom	Lieki	N
Accipiter castanilius	1	0	0	0	0	1
Accipiter toussenelii	1	0	0	0	0	1
Alcedo quadribrachys	6	3	0	0	1	10
Alethe castanea	9	8	1	1	10	29
Andropadus gracilis	4	1	0	2	0	7
Andropadus latirostris	45	7	3	58	30	143
Andropadus virens	23	89	6	21	7	146
Bleda eximius	6	9	5	6	3	29
Bleda syndactyla	0	0	0	2	3	5
Butorides striatus	1	0	0	0	0	1

RESULTATS (Capture/2)

Espèce	YaeK	Kona	Mwe	Bom	Lieki	N
Bycanistes fustilator	1	0	0	0	0	1
Bycanistes albotibialis	1	0	0	0	0	1
Camaroptera brevicaudata	0	4	0	0	0	4
Campethera caroli	0	1	0	0	2	3
Campethera nivosa	2	1	0	0	0	3
Ceyx lecontei	0	0	2	1	1	4
Ceyx picta	1	4	0	2	3	10
Cinnyris chloropigius	0	5	0	0	0	5
Criniger calurus	1	5	0	8	2	16
Criniger chloronotus	0	0	0	0	1	1

RESULTATS (Capture/3)

Espèce	YaeK	Kona	Mwe	Bom	Lieki	N
Cyanomitra cyanolaema	0	2	0	0	0	2
Deleornis axillaris	1	1	0	0	0	2
Dyaphorophya castanea	3	7	0	0	2	12
Gymnobucco bonapartei	0	0	0	1	0	1
Halcyon badia	0	0	0	0	1	1
Halcyon malimbica	0	0	0	1	0	1
Hylia prasina	9	5	1	5	5	25
Illadopsis albipectus	0	1	0	2	0	3
Illadopsis fulvescens	7	1	1	7	0	16
Illadopsis rufipennis	0	0	0	2	0	2

RESULTATS (Capture/4)

Espèce	YaeK	Kona	Mwe	Bom	Lieki	N
Indicator maculatus	0	1	0	1	1	3
Malimbus nitens	0	2	0	0	1	3
Merops variegatus	0	1	0	0	0	1
Nectarinia olivacea	56	48	11	32	59	206
Neocossyphus fraseri	0	0	0	0	3	3
Neocossyphus poensis	1	1	0	1	1	4
Nicator chloris	0	0	0	0	1	1
Otus icterorhynchus	0	0	0	0	1	1
Parmoptila rubifrons	1	0	0	0	0	1
Parmoptila woodhousei	0	1	0	0	0	1

RESULTATS (Capture/5)

Espèce	YaeK	Kona	Mwe	Bom	Lieki	N
Phyllastrephus albigularis	14	2	1	5		22
Phyllastrephus icterinus	0	0	0	0	13	13
Ploceus cucullatus	0	1	0	0	0	1
Ploceus melanocephalus	0	1	0	0	0	1
Ploceus sp.	0	0	1	0	0	1
Pogoniulus atroflavus	1	0	0	0	0	1
Pogoniulus bilineatus	0	2	0	0	0	2
Pogoniulus scolopaceus	1	0	1	0	0	2
Pyrenestes ostrinus	3	6	1	0	0	10

RESULTATS (Capture/6)

Espèce	YaeK	Kona	Mwe	Bom	Lieki	N
Stiphornis sanghensis	0	0	0	1	0	1
Streptopelia semitorquata	0	1	0	0	0	1
Strix woodfordii	1	2	1	0	0	4
Terpsiphone rufiventer	3	7	4	5	6	25
Terpsiphone rufocinerea	1	0	0	0	1	2
Terpsiphone sp.	1	0	0	0	0	1
Tropicranus albocristatus	1	0	0	0	0	1
Turtur afer	0	3	0	0	0	3
Turtur brehmeri	0	1	0	0	1	2
Turtur tympanistria	0	2	0	1	0	3
N	213	239	39	165	159	815
S	31	36	14	22	25	60

RESULTATS (Observation/1)

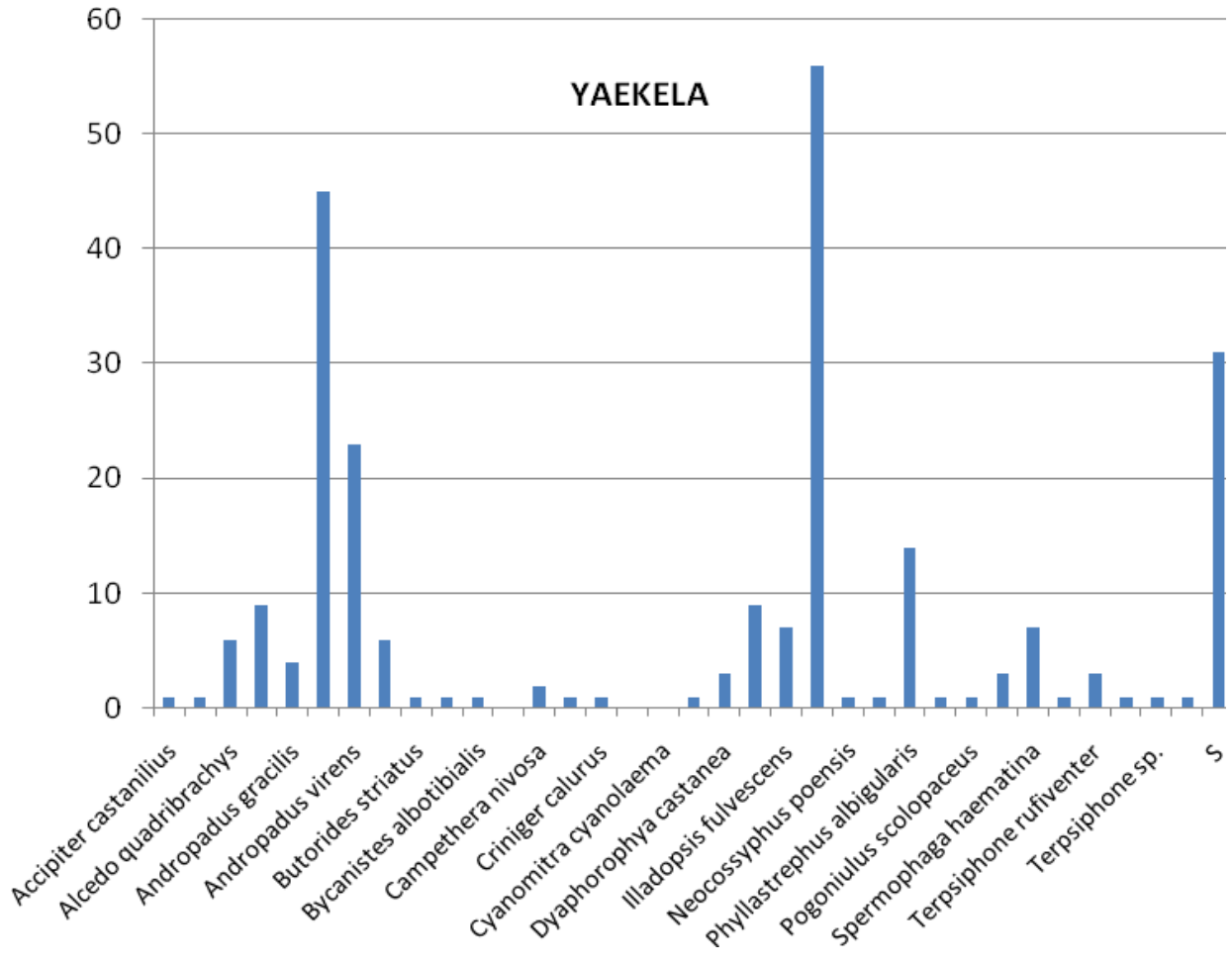
Genre	Espèce	YaeK	Kona	Bomane	Lieki
Merops	*gularis*				+
Ceryle	*rudis*				+
Megaceryle	*maxima*				+
Motacilla	*aguimp*				+
Estrilda	*melpoda*	+			+
Centropus	*senegalensis*				+
Gypohierax	*angolensis*	+	+	+	+
Polyboroides	*typus*	+	+		
Psittacus	*erithacus*	+		+	
Corythaeola	*cristata*	+	+	+	+
Tockus	*fasciatus*	+	+	+	+
Chrysococcyx	*klaas*	+			

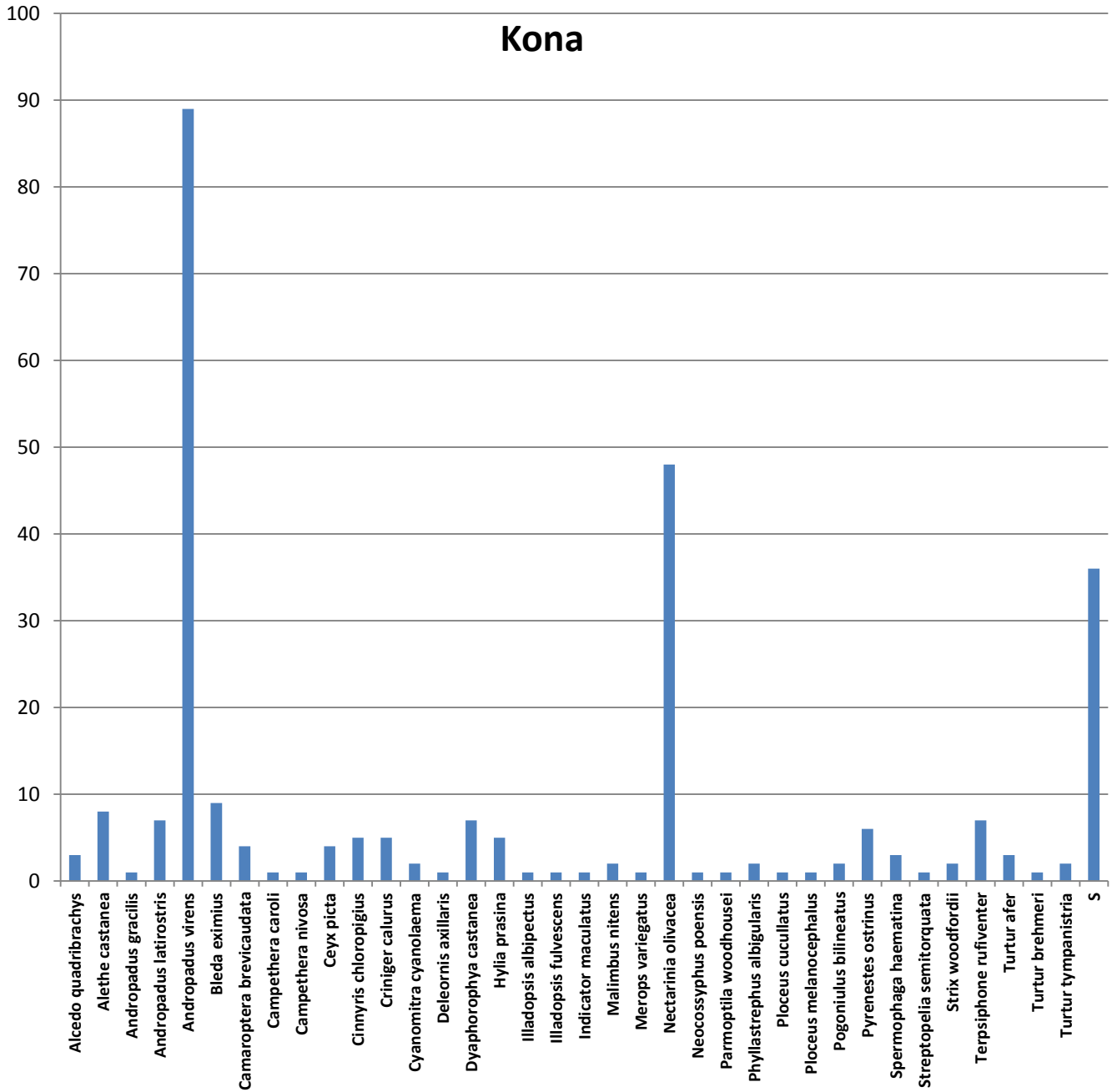
RESULTATS (Observation/2)

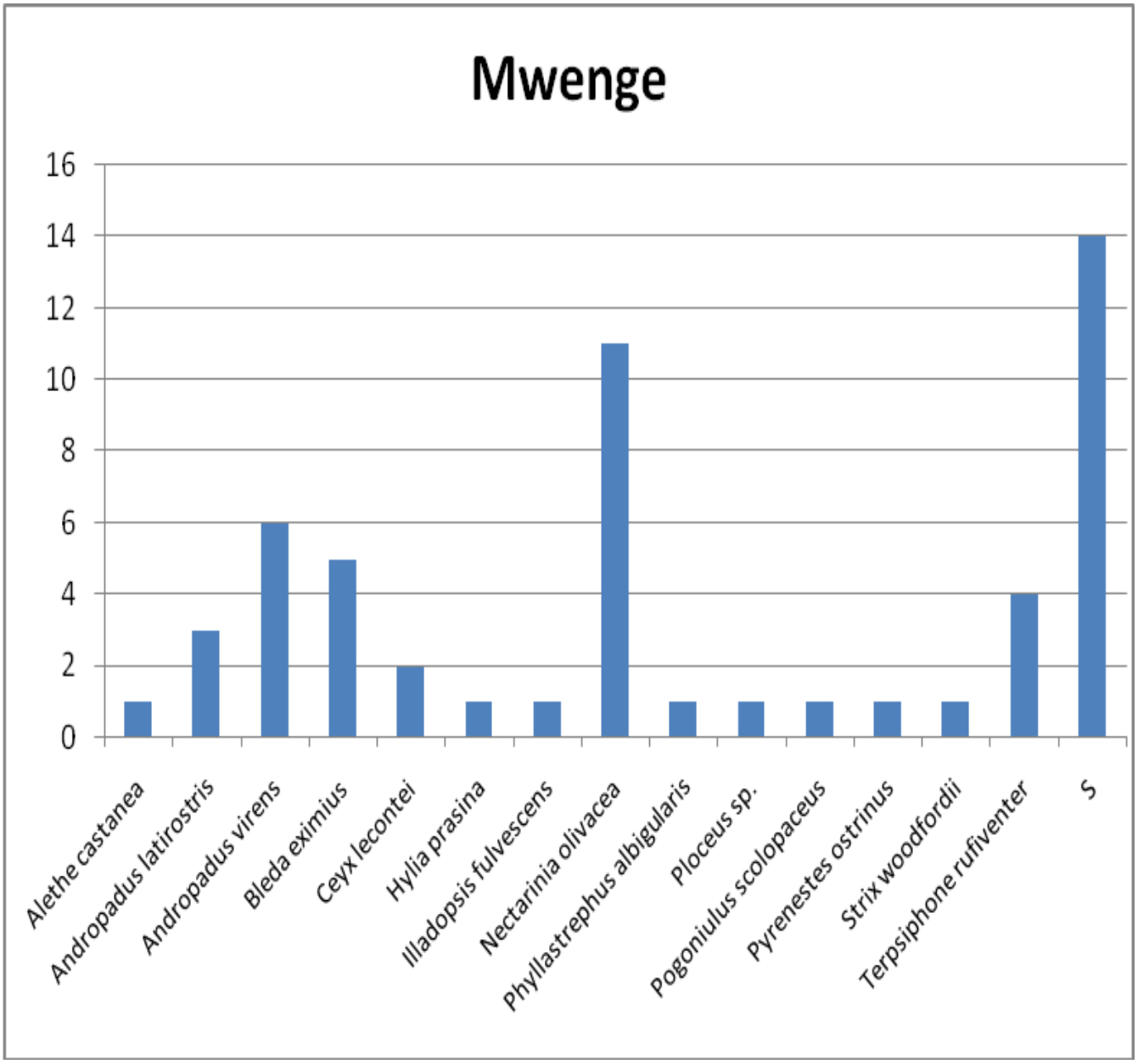
Genre	Espèce	YaeK	Kona	Bomane	Lieki
Ardea	*ibis*	+	+		
Milvus	*aegypticus*		+		
Chlorocicla	*simplex*	+			
Ixonotus	*guttatus*			+	+
Treron	*calva*	+			
Lonchura	*cucullata*	+	+		
Ploceus	*pelzelni*	+			
Anastomus	*lamelligerus*	+			
Ardeola	*ralloides*		+		
Actophilornis	*africana*	+			
Phalacrocorax	*africanus*				+
Pycnonotus	*tricolor*				+
Lamprotornis	*splendidus*	+			
Lonchura	*fringilloides*				+
Vidua	*macroura*				+
Total	29	16	9	6	15

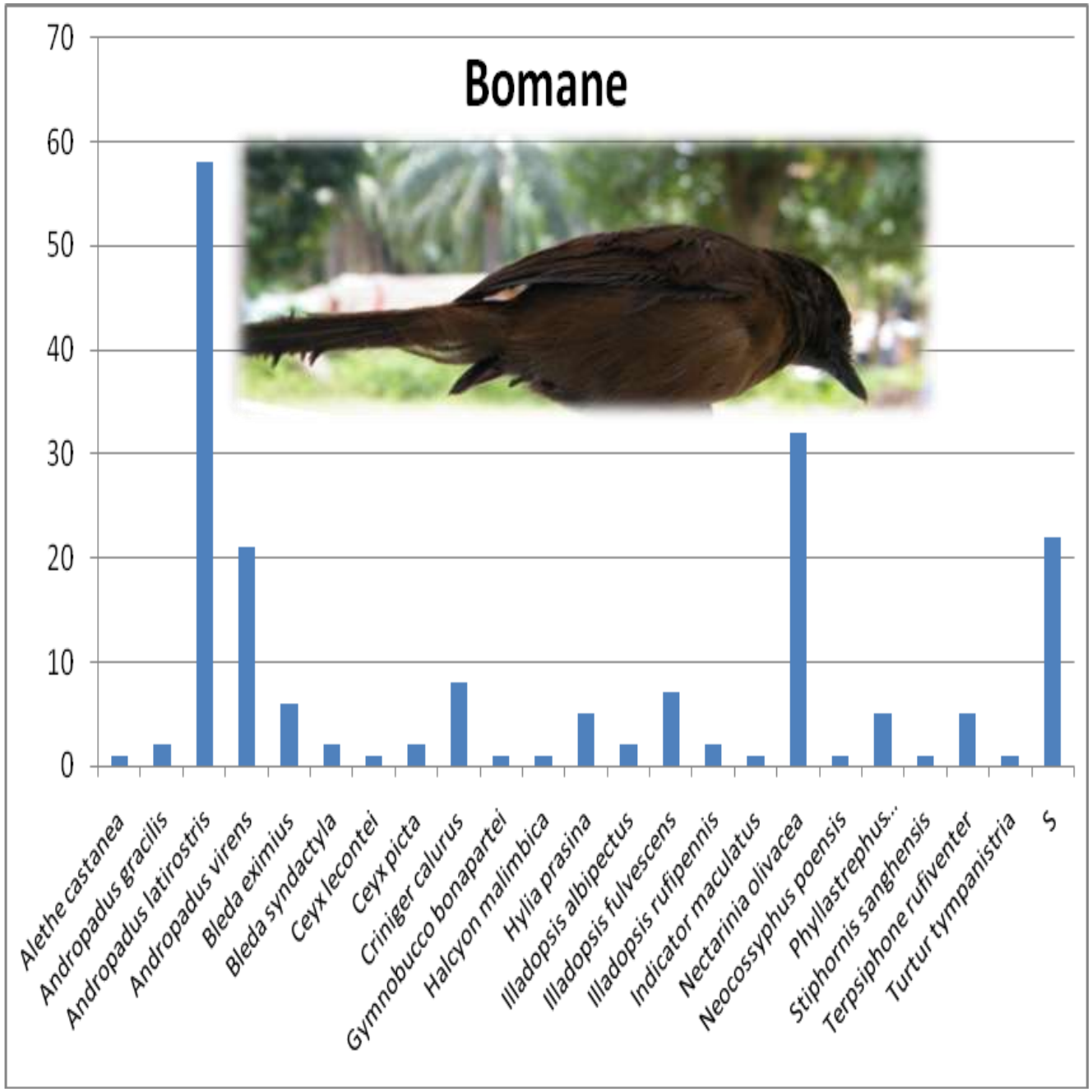
RESULTATS

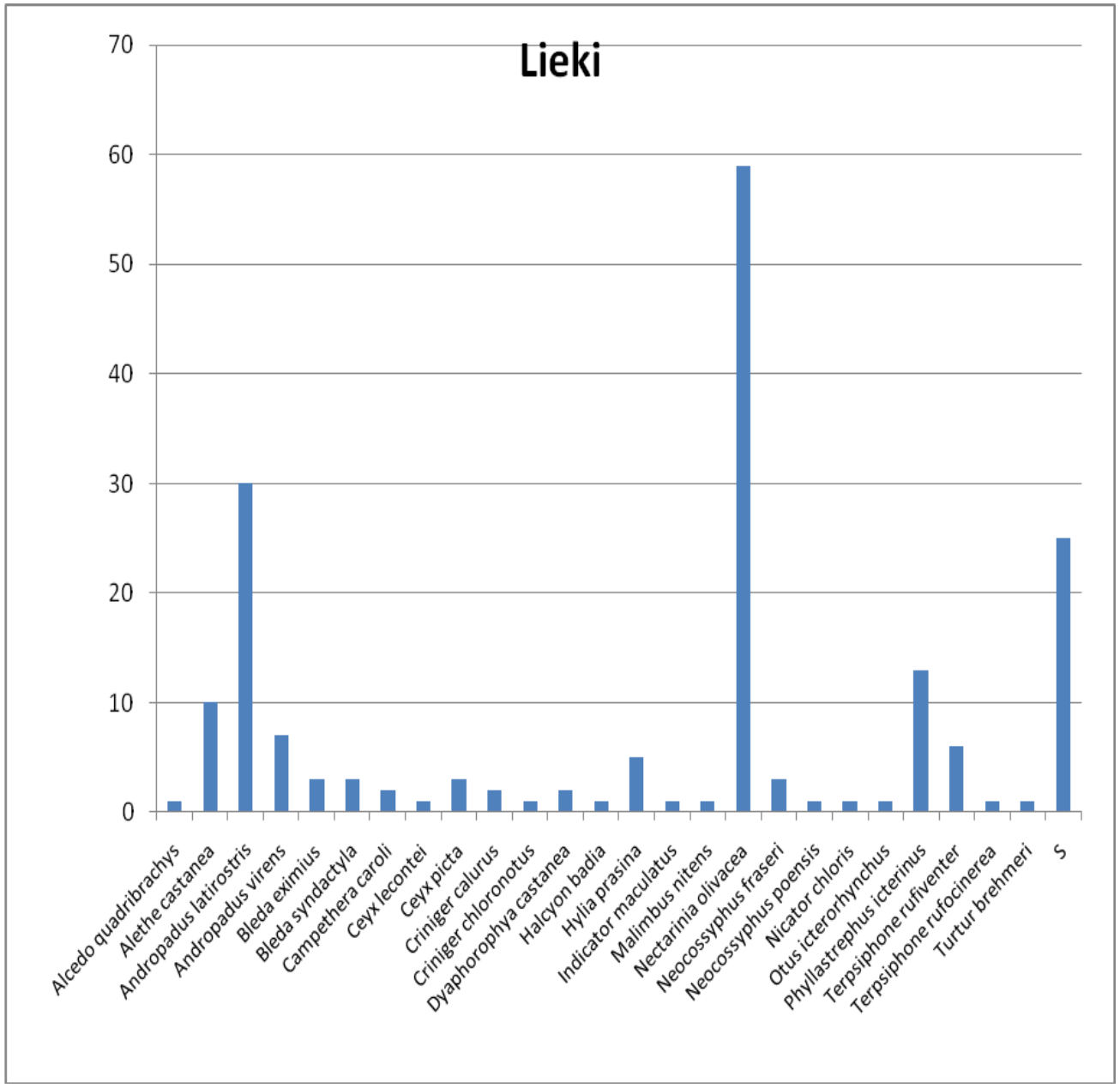
1. Site Specific Composition



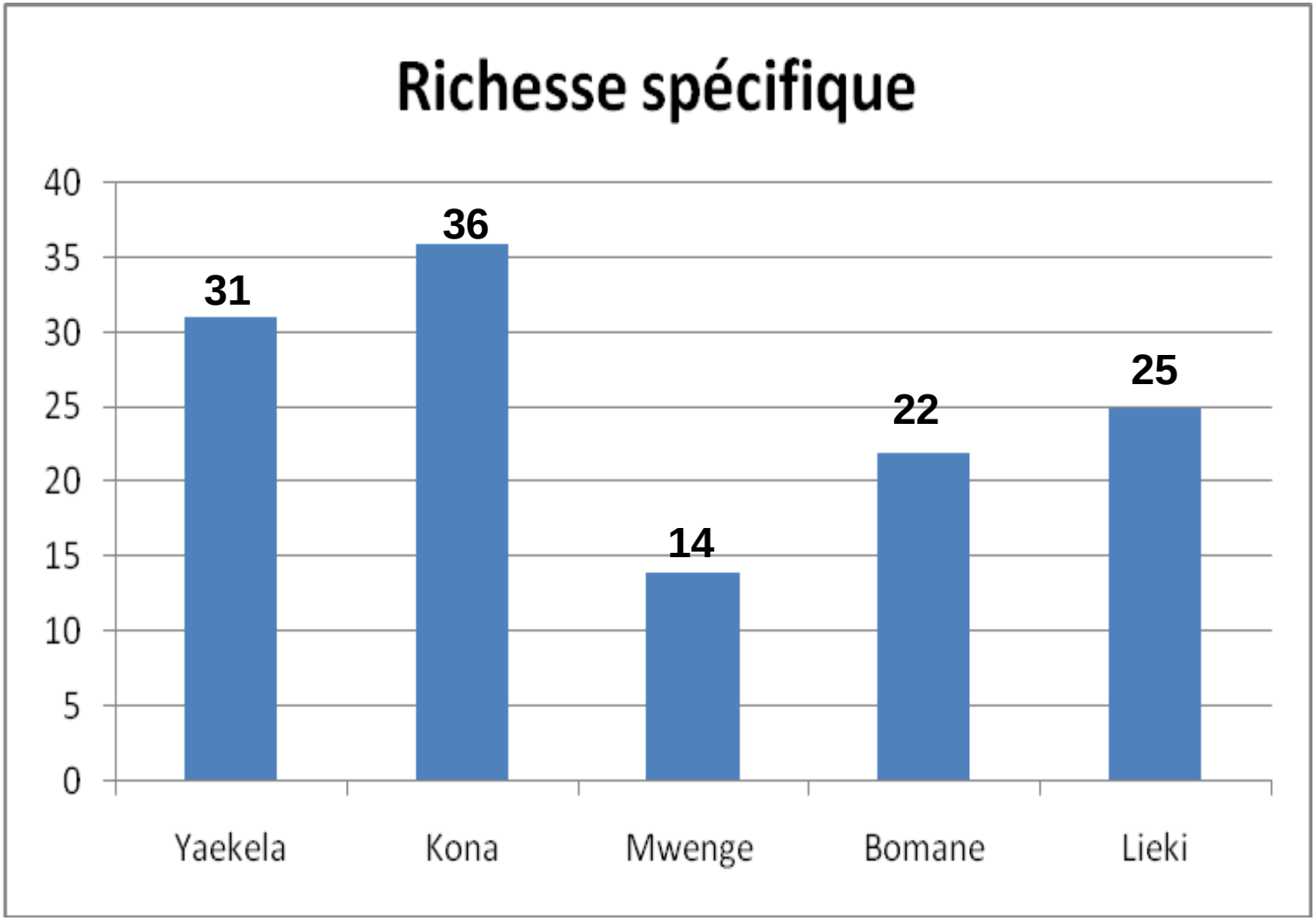

Kona
100
90
80
70
60
50
40
30
20
10
0
Alcedo quadribrachys
Alethe castanea
Andropadus gracilis
Andropadus latirostris
Andropadus virens
Bleda eximius
Camaroptera brevicaudata
Campethera caroli
Campethera nivosa
Ceyx picta
Cinnyris chloropigius
Criniger calurus
Cyanomitra cyanolaema
Deleornis axillaris
Dyaphorophya castanea
Hylia prasina
Illadopsis albipectus
Illadopsis fulvescens
Indicator maculatus
Malimbus nitens
Merops variegatus
Nectarinia olivacea
Neocossyphus poensis
Parmoptila woodhousei
Phyllastrephus albigularis
Ploceus cucullatus
Ploceus melanocephalus
Pogoniulus bilineatus
Pyrenestes ostrinus
Spermophaga haematina
Streptopelia semitorquata
Strix woodfordii
Terpsiphone rufiventer
Turtur afer
Turtur brehmeri
Turtur tympanistria
S


Mwenge
16
14
12
10
8
6
4
2
0
Alethe castanea
Andropadus latirostris
Andropadus virens
Bleda eximius
Ceyx lecontei
Hylia prasina
Illadopsis fulvescens
Nectarinia olivacea
Phyllastrephus albigularis
Ploceus sp.
Pogoniulus scolopaceus
Pyrenestes ostrinus
Strix woodfordii
Terpsiphone rufiventer
S


Bomane
70
60
50
40
30
20
10
0
Alethe castanea
Andropadus gracilis
Andropadus latirostris
Andropadus virens
Bleda eximius
Bleda syndactyla
Ceyx lecontei
Ceyx picta
Criniger calurus
Gymnobucco bonapartei
Halcyon malimbica
Hylia prasina
Illadopsis albipectus
Illadopsis fulvescens
Illadopsis rufipennis
Indicator maculatus
Nectarinia olivacea
Neocossyphus poensis
Phyllastrephus..
Stiphornis sanghensis
Terpsiphone rufiventer
Turtur tympanistria
S


Lieki
70
60
50
40
30
20
10
0
Alcedo quadribrachys
Alethe castanea
Andropadus latirostris
Andropadus virens
Bleda eximius
Bleda syndactyla
Campethera caroli
Ceyx lecontei
Ceyx picta
Criniger calurus
Criniger chloronotus
Dyaphorophya castanea
Halcyon badia
Hylia prasina
Indicator maculatus
Malimbus nitens
Nectarinia olivacea
Neocossyphus fraseri
Neocossyphus poensis
Nicator chloris
Otus icterorhynchus
Phyllastrephus icterinus
Terpsiphone rufiventer
Terpsiphone rufocinerea
Turtur brehmeri
S

2. Species' richness



3. Sampling Effort (CE)= 7129,2/594,1

LOCALITY	6 meters Hours/ days (13)	9 meters Hours/ days (3)	12 meters Hours/days (16)	Total Hours/ dayss
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

❖: Kona and Mwenge

4. Sampling Succes (SC=NX100/CE)

LOCALITY	N	SC
YAEKELA	213	122,9
❖KONA	278	160,41
BOMANE	165	166,67
LIEKI	159	107,07

❖: Kona and Mwenge

PRELIMINARY CONCLUSION AND RECOMMANDATIONS

- The highest species' richness is observed in Kona (36) and lowest in Mwenge (14)
- Highest total sampling efforts (2079,8/173,3) at Yaekela and Kona and the lowest (1188/99) at Bomane.
- Sampling success is the highest at Bomane (166,67) and the lowest at Yaekela (122,9)
- Further bird samplings are required in the concerned sites

THANKS

- **UNIKIS** — Kisangani, DRC
- **RMCA** — Tervuren, Belgium
- **NBGB** — Meise, Belgium
- **RBINSc** — Brussels, Belgium