

## **BIRDS**

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### **Forest Ecology**

#### **The importance of a linear strip of remnant forest for understorey birds in the East Usambara Mountains, Tanzania**

##### **Abstract**

The function of linear strips of vegetation in a fragmented forest on understorey birds was examined in the East Usambara Mountains in north-eastern Tanzania. In this preliminary study, using mist-nets and telemetry, we find support for the hypothesis that forest specialist species tend to avoid linear strips of forest vegetation in tea plantation and that two species of greenbuls tend to use linear strips for their movements in a fragmented landscape.

**Anna Gustafsson, Swedish University for Agricultural Science, Sweden**

**Bernhard Majer, University of Vienna, Austria**

**Charles Kahindo, Bukavu University, Congo & Makerere University, Uganda**

**1998**

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### **Predation**

#### **Predation on artificial nests with distance from forest edge in the East Usambara Mountains, Tanzania**

##### **Abstract**

We conducted our artificial nest predation experiment in the fragmented landscape of the East Usambara Mountains, Tanzania. We determined whether predation rate on artificial nests varied with distance from the edge of a block of primary rain forest into the matrix (tea plantation) and into the forest interior. The study was conducted in September 1998 towards the end of the dry season. The overall predation rate on nests of 17.5% (7/40) was much lower than expected based on results from previous artificial nest predation studies; we did not find that predation rates varied significantly with distance from the forest edge.

**Bernard M. Kissui, Serengeti Wildlife Research Institute, Tanzania**

**Coralie F. Abbott, University of Cambridge, UK**

**1998**

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## **Behavioural Ecology**

### **Foraging and social behaviour of silvery-cheeked hornbill *Ceratogymna brevis*, Amani Nature Reserve, Tanzania**

#### **Abstract**

This project was carried out from September 14-23, 2000 at Amani Nature Reserve, Tanzania, on foraging and social behaviour of the Silvery-cheeked Hornbill, *Ceratogymna brevis*. This mainly frugivorous species is among the most important seed dispersers. The objectives of this study are to know if the main behaviour of the species is constant or varies throughout the day, to know if the number of birds per foraging flock varies and to see whether there is sexual segregation during the day or at roost. Sampling was undertaken using focal-animal method. Sexual segregation is shown to be highly relevant at roosting site and the main behaviour shows a clear pattern.

**Rafael Matias, Universidade de Lisboa, Portugal**

**Adal Melaku, Addis Ababa University, Ethiopia**

**2000**

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### **The foraging behaviour of the olive sunbird (*Nectarinia olivacea*) on *Spathodea campanulata***

#### **Abstract**

The foraging behaviour of the olive sunbird (*Nectarinia olivacea*) on *Spathodea campanulata* was studied in the Amani Nature Reserve (ANR). Observations were made for six trees within the early and late morning periods. The olive sunbirds spent more of the active time feeding than perching. There was no significant difference in the time the olive sunbird spent on feeding between the two periods. However, there was a difference in the feeding bouts. Also flower abundance on a tree had no effect on birds' feeding time. Other bird species were found to be feeding on *Spathodea campanulata* with no observed aggressive interactions. The olive sunbird was also found to feed on six other plants in the ANR.

**Cheso Walters, Bamenda Highlands Forest Project, Cameroun**

**Azariah Mavis Lilian, Ghana Wildlife Society, Accra, Ghana**

Stauffer Martina, University of Vienna, Austria

2001

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## **Distribution**

### **The distribution of the olive sunbird, *Nectarinia olivacea*, in relation with forest habitats**

#### **Abstract**

The study compared the distribution of the olive sunbird with the different kinds of habitats along a road in Amani Nature Reserve. The birds' distribution was also compared to the distribution of *Maesopsis eminii* and *Lantana camara*. The birds were mapped using the calling method, but also visible birds were recorded. Habitats were mapped according to the vegetation using density, openness, and presence of fruiting and/or flowering plants as categories. The results shows that the olive sunbirds prefer habitats with dense undergrowth and fairly open canopy, near or in forest edges. There were no significant correlation between the sunbirds' distribution and flowering and fruiting plants.

Ina Bloch, University of Vienna, Austria

Sara Malmroth, Gotland University, Sweden

2002

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## **Ethnology**

### **Spatial and temporal variation in song rate and song duration in the Little Greenbul *Andropadus virens***

#### **Abstract**

We studied variation in the singing behaviour of the little greenbul *Andropadus virens* at two sites in Amani Nature Reserve, over a period of 6 days. Variation was measured in terms of singing rate per minute and mean song duration. The effects of differences in population densities, neighbouring birdsong and playbacks were measured over time. Our results show a significant peak in singing activity in the early morning. Singing rate and duration show a similar but non-significant trend. Neither measure of song co-varied with population densities. We found a weak, marginally significant correlation in rate of singing between neighbouring birds and some evidence of a sequential pattern in song.

Playback experiments elicited varied responses but there was no significant difference in song before and after playback. Temporal variation over the course of the day occurs even though the little greenbul sings all day. The results of song interactions between neighbours and of playback experiments suggest that their song is signaling both territorial and mate attraction messages.

**Abigail Bunker, Anglia Polytechnic University, UK**  
**Ellinor Lillieholm, University of Stockholm, Sweden**

**2005**

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## **The role of calling in the social behaviour of silvery-cheeked hornbills**

### **Abstract**

Silvery-cheeked hornbills, *Ceratogymna brevis*, live in social groups whose members communicate with each other by harsh quacking calls. We investigated whether the rate of calling depends on the size of a group, its sex ratio, and what activity the birds are engaged in. We also looked at how the rates of calling and patterns of activity changed throughout the day. Our observations consisted of three-minute focal watches and scanning observations at three different times of day, over a period of six days. We found a significant correlation between group size and calling rate, but no relationship between calling rate and sex ratio. The birds called significantly more in the morning and evening than during midday, a pattern that we attribute to the sharing of information at the roosting site. There was significantly more calling during flight than during other activities such as feeding and preening, and no significant difference between the relative amounts of time the hornbills spent on different activities at different times of day. We conclude that calling is a mechanism of information transfer between group members, for example about food availability and the presence of predators.

**Jessie Barker, University of Cambridge, UK**  
**Jonas Holgersson, University of Gothenburg, Sweden**

**2005**

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