

Student projects carried out on TBA courses in Uganda are listed under the following headings and subheadings. Within each category projects are chronological.

BIRDS

Behaviour
Bird-plant interactions
Distribution

BUTTERFLIES AND MOTHS

Behaviour
Distribution
Morphology

COMMUNITY AND HUMAN IMPACT

OTHER INVERTEBRATES

Ants
Beetles
Distribution
Other invertebrates

OTHER VERTEBRATES

Bats
Fish
Herpetofauna
Rodents
Primates

PLANT AND FOREST ECOLOGY

Distribution
Epiphytes
Figs
Forest ecology
Invasive plants
Morphology
Pollination
Shrub and understorey

BIRDS

Behaviour

Foraging success of the African Pied Wagtail *Motacilla aguimp* in three habitats (2001)

Population density and territorial behaviour of two tinkerbird species, Yellow-rumped (*Pogoniulus bilineatus*) and Yellow-throated (*P. subsulphureus*) in logged, unlogged and community plantation forests in and around Kibale National Park (2006)

Territoriality and song behaviour of the Little Greenbul, *Andropadus virens* (2006)

The effect of food availability on the diversity and density of birds in forest edge and interior habitats of Kibale National Park (2007)

Factors affecting bird call structure in a tropical forest (2009)

Bird-plant interactions

Features of *Erythrina abyssinica* that influence Bronze Sunbird defence against other bird species visitation along Kanyawara Road, Kibale National Park (2001)

Interspecific competition in sunbird species (Nectariniidae) for nectar resource in *Erythrina abyssinica* - Kibale Forest National Park (2003)

Variation in nectar production in *Erythrina abyssinica* and its effect on sunbird activity in Kibale Forest (2005)

Do differences in eco-morphology reflect differences in habitat between birds found in forest interior and forest edge in Kibale Forest National Park? (2007)

Distribution

Abundance of five bulbul species (Pycnonotidae) within logged and unlogged areas in Kibale Forest (2002)

A comparison of relative densities of the Little Greenbul and the Grey-backed Camaroptera in two different forest edges of Kibale Forest National Park (2003)

Forest bird species diversity and abundance in three habitats in Kibale Forest National Park (2005)

BUTTERFLIES AND MOTHS

Behaviour

Butterfly activity patterns in Kibale Forest (2001)

Model and mimic associations in mud puddling butterflies (2001)

Agonistic interactions between fruit-feeding butterfly species at Kanyawara site in Kibale Forest (2002)

Does camouflage explain rest site selection for moths? Observation and experiments in Kibale National Park (2002)

Factors involved in puddle-visiting by butterflies (2002)

Kibale Forest; a very small world through butterfly eyes (2002)

How effective is Batesian mimicry? Looking at the effectiveness of Batesian mimicry in butterflies by testing the behavioural responses of a range of predatory species (2005)

Differences in behavioural patterns: A comparison between five types of butterflies (2005)

Mud puddling behaviour in butterflies: Sodium versus nitrogen? (2007)

Feeding decisions in butterflies: competitors or indicators? (2010)

Distribution

Comparative study on butterfly species richness and abundance between the logged and unlogged areas in Kibale National Park (1998)

The effect of gap size on Lepidoptera diversity in Kibale Forest, Kibale National Park (1998)

Fruit-feeding butterfly diversity in three different habitats in Kibale Forest National Park (2005)

Tea plantations and mixed cultivation: barriers to forest butterfly dispersal? (2005)

Morphology

Differences in wing coloration and morphology among butterflies in different light environments in Kibale tropical rainforest (2004)

COMMUNITY AND HUMAN IMPACT

Impact of paths on the herb layer in Kibale Forest (1998)

Use of medicinal and wild food plants by local communities in and around Kibale Forest National Park (2004)

A comparative study of the influence of anthropogenic activities on water quality and invertebrate diversity in an equatorial river system (2005)

Relationships between catchment land uses and biodiversity in four crater lakes in western Uganda (2005)

Illegal activities in the north-western part of Kibale National Park (2008)

OTHER INVERTEBRATES

Ants

Ant foraging on the Bottle Brush Tree (*Callistemon subulatus*) – Its effects on the plant and other visitors (1998)

Gourmet ants or greasy spoon ants? How do colonies of *Cyphoidris* sp. react to foods of different quality? (1998)

Interspecific food competition in ants (1998)

Colony density, predation rates and other observations on *Dorylus wilverthi* in Kibale Forest National Park (2001)

Plant-ant interaction in *Psydrax subcordata* (Rubiaceae) and *Crematogaster* (2001)

Response of army ant columns to disturbance (2001)

Interaction between ants and *Macaranga schweinfurthii* in three habitats of Kibale National Park, and its effects on herbivory (2002)

Factors affecting prey removal in trails of army ants (*Dorylus* spp.) in Kibale Forest National Park (2003)

Comparative foraging behaviour of ant species in primary and regenerating forest, Kibale National Park (2004)

Size structure and division of labour in driver ants (*Dorylus* sp.) in Kibale National Park (2004)

An investigation into the foraging strategies of *Myrmecaria* ants (2006)

Colony structure, range size and inter-species interactions in an arboreal ant species, *Tetramorium aculeatum* (2008)

Escape behaviour in ants (sub-family Formicinae) (2010)

Beetles

A comparison of three sampling methods in Coleoptera diversity in logged, unlogged and pine plantation in Kibale Forest (1998)

The impact of small-scale habitat fragmentation on the abundance and movement patterns of Carabidae (Coleoptera) (2001)

Insect succession on herbivore dung with reference to Coleoptera (2002)

Comparison of the richness of Coleoptera (Arthropoda, Hexapoda) families between lightly logged and unlogged forest in Kibale National Park (2003)

A study of edge effects and dung preference in dung beetles in Kibale Forest National Park (2004)

Distribution

The diversity of ground invertebrates in different Kibale Forest habitats (1998)

Comparison of the soil fauna diversity on hills and valleys in Kibale Forest National Park (2002)

Zooplankton species composition, abundance and distribution in a Ugandan papyrus swamp (2002)

Resting site selection and predation in nocturnal insects (2003)

Application of a new method for determining the density of ground-dwelling arthropods in forest and grassland in Kibale National Park (2004)

A comparison of arthropods in Kibale Forest and adjacent cultivated fields (2004)

The effects of forest structure on the diversity of Orthoptera, Coleoptera and Hymenoptera (Formicidae) in Kibale Forest (2004)

Important factors influencing the faunal composition of puddles (2004)

Insect biomass as an index of forest regeneration (2004)

Edge effects on ground arthropod diversity in Kibale Forest (2005)

Fig wasp species richness and abundance in three different *Ficus* species of Kibale Forest (2005)

Insect biodiversity of understorey vegetation in areas of varying logging intensity in Kibale Forest, Uganda (2008)

Other invertebrates

Aggregations of tipulid flies in tree buttresses in Kibale Forest (1998)

The distribution and diversity of tetrigids in Kibale National Park (1998)

Grasshoppers (Orthoptera) as indicators of disturbance: a comparative study between differentially disturbed grasslands in Kibale National Park (1998)

Inclination angle and prey capture rate of spiders' webs in Kibale Forest (1998)

Abundance and species richness of mayfly nymphs in pools and streams within Kibale Forest (2001)

Can prey availability explain orb web characteristics in two different habitats? (2001)

The secret life of Derbidae or why to aggregate (2003)

Host fidelity and palatability of moth bugs (Family Flatidae) (2009)

Host selectivity by cicada for final stage of moulting (2009)

OTHER VERTEBRATES

Bats

Habitat, echolocation and wing morphology in bats of Western Uganda (2004)

Can the prey detection and allotonic frequency hypotheses explain the diet composition of *Hipposideros* bats? (2007)

Parasite loading in the fruit bat *Lissonycteris angolensis* in Kibale National Park (2007)

The influence of Kibale forest trails and past logging activities on the foraging pattern of banana bat (*Neoromicia nanus*) (2009)

Fish

A comparison of ecological variance of haplochromine cichlids in Lake Saaka and the River Mpanga (2003)

An experimental test of negative frequent dependent selection by male-male aggression in colour polymorphic haplochromine cichlids of Lake Saaka, Uganda (2003)

Hypoxia tolerance among *Barbus* (Cyprinidae) species (2003)

Herpetofauna

Feeding behaviour of *Chamaeleo ellioti* (Elliot's Chameleon) on Batesian mimics of butterflies (1998)

A study of behaviour and territoriality in the Tree Agama, *Stellio atricolis*, at the Kanyawara Field Station, Kibale National Park (1998)

Thermoregulatory behaviour in *Mabuya striata* at Kibale National Park, Uganda (1998)

Where to live and what to dine upon? A striped skink's perspective (2002)

Anuran niche partitioning in a eucalyptus reforestation area in Kibale National Park (2005)

Territoriality in the blue-headed tree agama (*Acanthocercus atricollis*) (2009)

Big guys at the waterfront: investigating pre-breeding season calling activity in the tree frog *Leptopelis christyi* (2010)

A bioacoustic and morphometric account of the Albertine Rift litter frog, *Arthroleptis schubotzi* (Amphibia: Anura) (2010)

Predictions in locomotor abilities and individual assessment in the blue-headed tree agama, *Acanthocercus atricollis*, using morphological traits (2010)

Size does matter: predation vulnerability and response of tadpoles to the presence of *Laccotrephes* sp. (Nepidae) (2010)

Rodents

Comparisons of rodent ecology between mature forest and eucalyptus plantations in Kibale National Park (2007)

A comparison of arboreal and terrestrial small rodent abundance in two different habitats of Kibale Forest National Park (2008)

Primates

Bark stripping of *Celtis africana* by Red Colobus monkey, *Colobus badius tephrosceles* in Kibale National Park (1998)

Activity budget of Black-and-white Colobus (*Colobus guereza*) in mono- and poly-specific associations in relation to predation (2006)

Comparison of parasite load of Black-and-white Colobus (*Colobus guereza*) in two different habitats, Kanyawara, Kibale National Park (2006)

A comparison of the social interactions between uni-male and multi-male groups in the Black-and-white Colobus, *Colobus guereza*, in Kibale Forest (2006)

Impact of dietary preferences and habits of Black-and-white Colobus (*Colobus guereza*) on some tree species in Kibale National Park (2006)

Activity patterns and feeding ecology of Red-tailed Guenons and Red Colobus: A comparison of two species in Kibale National Park (2008)

PLANT AND FOREST ECOLOGY

Distribution

Seed retention in *Marantochloa leucantha* - implications for seed dispersal strategy (2001)

Spatial distribution of large trees: Competition or not? (2001)

A comparative study of the densities of living and dead trees in heavily logged and unlogged areas of Kibale National Park (2002)

Distribution and abundance of selected tree and undergrowth plant species in relation to slope in Kibale Forest National Park (2002)

Effects of a topographic gradient on the distribution, abundance and structure of some tree species in Kibale Forest (2002)

A comparative study of tree densities and diversities in logged and unlogged areas of Kibale National Park (2003)

Size and distribution of *Trema orientalis* and *Polyscias fulva* in a recently logged and secondary logged plantations in Kanyawara, Kibale National Park (2003)

Success variation of *Palisota schweinfurthii* in different habitats (2004)

Tree species regeneration potential, diversity and distribution in the logged, unlogged, and community adjacent forest edges in Kibale National Park (2008)

Influence of edge and host specificity on the distribution of pteridophytes in Kibale National Park (2010)

Epiphytes

Microhabitat of the epiphytic fern *Platyserium elephantotis* Schweinf. (Polypodiaceae) (2003)

Host preference by *Platyserium elephantotis* Schweinf. (Polypodiaceae): A case study in Kibale National Park (2005)

Species diversity and relative abundance of terrestrial ferns in Kibale Forest (2005)

Study on the ecological factors which influence the occurrence of two macroepiphytes: *Platyserium elephantotis* and *Asplenium* spp. at Kibale Forest, Uganda (2009)

Figs

Do figs influence tree species diversity in Kibale Forest? (1998)

Interaction between interactions: Are *Ficus* seed dispersers dispersing fig wasps? (2001)

An investigation into the spatial distribution of male and female plants in the dioecious fig *Ficus asperifolia*, in Kibale Forest (2003)

Fig wasp communities in *Ficus natalensis* species in Kibale National Park (2004)

Forest ecology

Leaf morphology and herbivory of successional stages (1998)

Preliminary assessment of seedling recruitment in *Uvariopsis congensis* in Kibale Rain Forest (1998)

Relationship between herbivory and plant defence strategies (1998)

Insect damage (herbivory) on the leaves of *Uvariopsis congensis* and *Tabernaemontana odoratissima* in Kibale National Park (2001)

An investigation of the occurrence and function of leaf domatia in woody species of the Kibale Forest (2001)

A comparative study of the distribution and effects of vines on *Trema orientalis* and *Polyscias fulva* pioneer tree species in secondary forest of Kibale (2002)

A comparative study on structural composition in lightly logged and heavily logged forests in Kibale National Park and its implication on the lower understorey vegetation (2002)

Field survey of a frugivore-plant network in Kibale National Park (2002)

Influence of pine plantation logging on the regeneration of trees in Kibale Forest (2002)

Is the extent of edge effect affected by neighbouring matrix? (2002)

Edge effects on vertical stratification in a differentially logged forest in East Africa (2003)

Effect of selective logging on tree mortality using dead standing trees as an indicator in Kibale Forest (2003)

Impact of gap size on tree species regeneration in different locations in Kibale Forest (2004)

Insect herbivory on leaves of *Aframomum mildbraedii* (2004)

Plant species diversity in natural forest versus *Eucalyptus* woodlot: A comparative case study in Kibale National Park (2005)

Impact of gap size on tree regeneration in the Kibale Forest (2006)

Plant leaf adaptation in gaps and understorey areas of Kibale Forest (2006)

Biodiversity of water-filled tree holes in Kibale Forest, a fragmented Ugandan tropical moist forest (2008)

Tree species composition: A case study of lightly logged, heavily logged and heavily logged arboricide-treated forest sites in Kibale National Park, Uganda (2009)

Influence of forest disturbance and tree features on parasitism by *Loranthus* species in Kibale National Park (2010)

Invasive plants

A study to determine the visitation rate of potential pollinators (butterflies, bees and moths) on *Lantana camara* (2001)

Factors affecting species richness of *Lantana camara* and *L. trifoliata*: A case study of Kibale National Park (2004)

Spatial distribution of major exotic plants at Kanyawara in Kibale National Park (KNP) with emphasis on *Lantana camara* (2004)

Production of allelopathic substances in an invasive plant species, *Lantana camara*, as a means of out-competing other plants in a bush-fallow: Kibale Forest National Park (2005)

Pollination mechanism of *Lantana camara* (2005)

Investigation of species diversity in the patches of *Lantana camara* and *Acanthus pubescens* in Kibale National Park (2007)

Does isolation influence herbivory, seed set and flower visits in the spread of *Lantana camara*? A test in Kibale National Park (2008)

Effects of *Cestrum nocturnum* on the germination success and regeneration of indigenous plant species in Kibale National Park, Uganda (2010)

Morphology

Patterns of buttress development in three tree species in Kibale Forest (1998)

Impact of big trees on the basal area of local trees in Kanyawara, Kibale Forest (2001)

Spinescence in Kibale Forest (2001)

Does leaf morphology reflect a plant's water management? A comparative study of three life forms found in a secondary growth in Kibale Forest National Park (2002)

Growth structure, distribution and coppicing behaviour of *Chaetacme aristata* Planch. (Ulmaceae) (2009)

Pollination

Nectar robbery in *Erythrina abyssinica* flowers: Effects and implications for pollinators (2001)

Pollination and pollinator attraction in *Hypoestes triflora* (Acanthaceae) (2001)

A study of the pollination mechanism of *Euclinia longiflora* (Rubiaceae) (2001)

An investigation into the pollination mechanism of *Cestrum nocturnum* (2002)

Phenology and pollination of the shrub *Euadenia eminens* (Capparidaceae) (2003)

A study to investigate the potential pollinators of *Vernonia wollastonii* (Asteraceae) (2003)

Pollination ecology of *Barleria* sp. in Kibale National Park (2005)

The role of nectar and nectar guides in visitor attraction of *Hypoestes triflora* (Acanthaceae) in Kibale National Park, Uganda (2006)

The influence of nectar characteristics on potential pollinators in six species of flowering plants in Kibale National Park (2007)

Functional ecology of colour change and breeding biology in *Desmodium setigerum* (E. Mey.) (2008)

Activity pattern of pollinators and pollination ecology of *Crassocephalum montuosum*: weed species in logged *Eucalyptus* plantation in Kibale Forest National Park (2009)

Relationship between nectar secretion and visitor diversity of *Lantana camara* at Kibale Forest National Park (2009)

Size matters – Pollinator effectiveness on *Desmodium setigerum* (2009)

Shrub and understorey

Investigations into the ecology and morphology of a root parasite *Thonningia sanguinea* in Kibale Forest Reserve (2001)

Is the level of gall parasitism in *Acanthus pubescens* influenced by habitat? (2001)

Effects of decay of logs on the distribution and species diversity of wood decay fungi in a natural forest in Kibale (2002)

How does water and light availability affect ecological and morphological traits of an understorey plant, *Palisota schweinfurthii*? (2003)

Inhibition of regeneration in Kibale Forest by an early successional plant, *Brilliantaisia nitens* (2004)

The effect of light on the abundance and growth structure of *Acanthus pubescens* (Acanthaceae) in two forest sites, the regenerating and closed canopy forest in Kibale Forest National Park (2005)

Diversity of shrub species in logged, lightly logged and unlogged areas in Kanyawara, Kibale National Park (2007)