

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

**Birds**

Behavioural ecology  
Distribution  
Predation

**Community and human impact**

General  
Tea plantations

**Herpetofauna**

Behaviour and physiology  
Distribution

**Invasive plants**

Distribution  
Ecology

**Invertebrates**

Ants & termites  
Butterflies & moths  
Distribution  
Other

**Plant and forest ecology**

Distribution  
Ecology  
Epiphytes  
Pollination

**BIRDS**

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**Behavioural ecology**

Foraging and social behaviour of Silvery-cheeked Hornbill *Ceratogymna brevis*, Amani Nature Reserve, Tanzania (2000)

The foraging behaviour of the Olive Sunbird (*Nectarinia olivacea*) on *Spathodea campanulata* (2001)

Spatial and temporal variation in song rate and song duration in the Little Greenbul *Andropadus virens* (2005)

The role of calling in the social behaviour of Silvery-cheeked Hornbills (2005)

The influence of nectar amount and quality on sunbird visitation in Amani Nature Reserve, Tanzania (2010)

**Distribution**

The importance of a linear strip of remnant forest for understorey birds in the East Usambara Mountains, Tanzania (1998)

The distribution of the Olive Sunbird, *Nectarinia olivacea*, in relation with forest habitats (2002)

**Predation**

Predation on artificial nests with distance from forest edge in the East Usambara Mountains, Tanzania (1998)

## COMMUNITY AND HUMAN IMPACT

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### General

Gender participation in natural resource management in the East Usambara Mountains, Tanzania (1998)

Perception of the local people towards the Amani Nature Reserve: the case for Kisiwani and Mlesa villages (1998)

Pole extraction in the Amani Nature Reserve forests, Tanzania (2001)

The effect of cutting on the floodplain vegetation of Amani, Tanzania (2003)

The impact of human activities on floodplain in Amani, East Usambara Mountains, Tanzania (2003)

The Amani Butterfly Project: an assessment of its impact on Amani Nature Reserve (2006)

Does clothes washing activity in forest streams have an impact on macroinvertebrate biodiversity? (2007)

### Tea plantations

Tea plantations as a habitat for wild flowers (2001)

A comparison of tea plantation and forest soil habitats in the East Usambara Mountains, Amani, Tanzania (2003)

Examination of riverine macro invertebrate riffle assemblages with particular reference to impact of tea plantations (2007)

## HERPETOFAUNA

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### Behaviour and physiology

Spacing between calling males of the African Reed Frog, *Hyperolius puncticulatus* (Pfeffer, 1893) in Amani pond (2000)

Spacing and calling patterns among males of *Hyperolius puncticulatus* and *Hyperolius mitchelli* (2000)

Does the puddle frog, *Phrynobatrachus krefftii*, return to the same place every night? (2001)

Differential tadpole response to pond and stream predators (2005)

Characterisation of the vocalisations of *Nectophrynoides tornieri* Roux, 1906 (Anura: Bufonidae) (2006)

Does habitat type influence the rate of evaporative water loss (EWL) in frogs? A multi-species test on Eastern African frogs (2008)

Potential of the yellow throat as an honest indicator for male strength in *Phrynobatrachus krefftii* (2008)

The show must go on, but at what cost? Looking for compensating traits to the conspicuous colouration in *Phrynobatrachus krefftii* (2008)

Push-ups as territorial displays in *Nectophrynoides tornieri* in the Amani Nature Reserve, Tanzania (2009)

Impacts of washing detergents on aquatic invertebrates and on tadpole development in Amani Nature Reserve (2009)

The effect of invasive milfoil on abundance and predator-prey interactions of water scorpions and tadpoles in Amani pond, Amani Nature Reserve (2009)

### **Distribution**

Do anuran species show preference for certain sites in the Amani pond? (1998)

The effect of harvesting of water weed (*Myriophyllum*) on the frogs and other fauna of Amani pond, Tanzania (2000)

Is there a relationship between leaf litter habitat and *Arthroleptis* frog abundance in Amani Botanical Garden? (2002)

Factors determining the diversity and abundance of hyperolid frogs in the emergent vegetation in Amani pond, Tanzania (2003)

Diversity and abundance variations of anurans with habitat strata across Amani swamp, East Usambara Mountains, Tanzania (2005)

Vegetation and height preference of juvenile frogs (*Hyperolius*) in the Amani pond, Amani Nature Reserve, Tanzania (2005)

Spatial distribution patterns of two hyperolid frog species in Amani pond (2006)

Biogeography of pond-breeding amphibians in Amani Nature Reserve, Tanzania (2010)

The effect of monoculture tree stands on leaf litter frog diversity and abundance in Amani Nature Reserve, Tanzania (2011)

Effect of edge on distribution of leaf litter amphibians in Amani Nature Reserve, Tanzania (2011)

## **INVASIVE PLANTS**

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### **Distribution**

Invasive woody species in the Monga Forest, East Usambara Mountains, Tanzania (1998)

Life history of *Maesopsis eminii* – Architecture and behavioural ecology in the forest (2002)

Density variation of *Lantana camara* and *Clidemia hirta* with a forest profile perspective, across the forest edge in Amani Nature Reserve (2002)

The factors influencing the abundance and distribution of *Clidemia hirta* in Amani Nature Reserve (2007)

Tree species composition and abundance of invasive species in selected parts of Amani Nature Reserve (ANR) forest, Tanzania (2007)

Influence of forest trails and forest edges on the spread of *Clidemia hirta* in Amani Nature Reserve (2008)

The struggle of *Lantana camara* to survive in forest gaps in Amani Nature Reserve (2009)

### **Ecology**

Effects of *Maesopsis* on the fauna of the Amani Nature Reserve in the East Usambara Mountains, Tanzania with specific reference to forest litter amphibians (1998)

Butterfly feeding behaviour around *Lantana camara* (2000)

The ecology of *Phyllostachys bambusoides* and its impact on indigenous tree species in Amani Nature Reserve (2000)

Factors affecting the invasive success of *Clidemia hirta* in Amani, Eastern Usambara Mountains, Tanzania (2000)

Regeneration and population structure of the alien tree species *Maesopsis eminii* in Amani Nature Reserve, Tanzania (2000)

The relationship between *Maesopsis eminii* and *Anisophyllea obtusifolia* regeneration along a slope (2000)

Relationship between seed predation of *Maesopsis eminii* and gaps (2000)

The agro-ecological importance of invasive species on farmlands in the East Usambara Mountains, Tanzania. Case species: *Lantana camara*, *Clidemia hirta* and *Rubus rosifolius* (2001)

Herbivory of *Clidemia hirta* in two sites within Amani Nature Reserve, Tanzania (2002)

Fruit productivity and other life history traits of *Maesopsis eminii* at a forest edge and in a closed habitat of Amani, East Usambara Mountains, Tanzania (2003)

Reproduction of *Ageratum conyzoides* depending on light and flower colour (2003)

Effect of shade on leaf length, leaf area, stem diameter and coverage of *Lantana camara* under *Maesopsis eminii* and *Cinnamomum camphora* dominated sites in Amani Nature Reserve, East Usambara Mountain, Tanzania (2005)

Seedling dynamics under *Maesopsis* tree canopy in different forest conditions at Amani Nature Reserve (ANR) (2005)

Small mammals as potential seed predators of *Maesopsis eminii* (2005)

Comparison of insect diversity on confamilial native and alien species of shrubs: a case study of Amani Nature Reserve (2006)

Aspects of the pollination biology of *Lantana camara* (Verbenaceae) (2005)

Visitor-generalist plant interactions: case studies of *Lantana camara* & *Stachytarpheta* sp. at Amani Nature Reserve, Tanzania (2006)

Comparison of butterfly diversity and nectar reward on *Lantana camara* and *Stachytarpheta jamaicensis* in the Amani Nature Reserve (2008)

The effect of altitude on butterfly community visiting *Lantana camara* (2008)

Herbivory and predation on *Clidemia hirta* and native plant species in Amani Nature Reserve (2009)

Benefits of an invasive species: the relationship between *Maesopsis eminii* and its frugivores (2010)

## INVERTEBRATES

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### Ants & termites

Defence strategies in driver ants "Any meat they meet they eat" (1998)

Comparative foraging behaviour and prey choice of the African Stink Ant, *Paltothyreus tarsatus*, in three different habitats in Amani, East Usambara Mountains, Tanzania (2000)

The distribution pattern of *Nasutitermes* sp. nests in Amani Nature Reserve (2002)

An investigation into the effect on abundance and diversity of terrestrial invertebrates of a changing environmental gradient: looking at the edge effect of primary, tropical submontane forest to monoculture tea plantation habitats (2003)

The nesting behaviour of *Eutermes* sp. (Isoptera: Termitidae) in Amani Nature Reserve, Tanzania (2003)

Benefits and benefactors: who reaps the rewards in an ant-scale insect interaction? (2009)

Factors influencing nest site selection by arboreal termites in the Amani Nature Reserve (2010)

### Butterflies & moths

Investigation of butterfly diversity and abundance in open agricultural land and in forest edge in Amani Nature Reserve, Tanga, Tanzania (1998)

Behaviour and feeding preferences of three Amani butterfly species (*Acraea insignis*, *Junonia terea* and *Bicyclus safitza*) (2001)

Assessing the learning capacity of *Salamis parhassus* and *Bicyclus safitza* (2007)

Is diversity in cryptic traits in moths consistent with past character displacement arising from search image avoidance? (2008)

Assessing changes in butterfly communities across a forest-edge gradient within the Amani Nature Reserve, Tanzania (2009)

### Distribution

Do ground dwelling insect assemblages in forest fragments differ from those found in linear strips and the surrounding matrix (Tea Plantation) (1998)

An investigation of community structure of benthic invertebrate fauna in a montane tropical river ecosystem and the impact of human disturbance (2000)

Effect of disturbance on diversity and abundance of detritus invertebrates in Amani Nature Reserve (2006)

Leaf litter communities in natural forest and shade cropping areas (2007)

Response of ground arthropod assemblages to *Maesopsis eminii* colonisation in Amani Nature Reserve (2009)

The comparative analysis of insects on leaf litter in different habitats within Amani Nature Reserve (2011)

### Other

Patterns of species abundance within a community of fig-wasps (2000)

Cricket (*Gryllus* spp.) calling activity and factors determining call characteristics in Amani, East Usambara Mountains, Tanzania (2001)

- Drosophilids as indicators of the level of environmental changes: A case study at Amani, in East Usambara Mountains (2002)
- Investigating the activity patterns of a land slug species of Amani Nature Reserve, East Usambara Mountains, Tanzania (2002)
- A comparative study of Coleoptera diversity and abundance in disturbed and undisturbed forest in Amani Nature Reserve (2005)
- Odonata assemblages in natural and artificial water systems in Amani Nature Reserve (2010)
- Patterns of millipede distribution in Amani Nature Reserve (2010)
- Pollinator communities in two different management systems in the fragmented landscape of Amani Nature Reserve (2010)
- Effectiveness of defence mechanisms in insects: a case study of ground beetles and katydids in Amani Nature Reserve (2011)
- Habitat preference and tolerance to disturbance of threatened species of dragonflies and damselflies (Odonata) in the East Usambara Mountains, Tanzania (2011)
- Territorial behaviour of *Platycypha caligata* (Selys) and *Platycypha auripes* (Förster) in Amani Nature Reserve, Usambara Mountains, Tanzania (2011)

## **PLANT AND FOREST ECOLOGY**

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### **Distribution**

- Distribution and density of *Newtonia buchananii* in Amani Nature Reserve, Tanzania (2000)
- Distribution and performance of *Cyathea manniana* in Amani Nature Reserve (2000)
- Population density of *Allanblackia stuhlmannii* in the disturbed, semi-disturbed and undisturbed areas of Amani Nature Reserve, East Usambaras, Tanzania (2002)
- Does plant species composition vary beneath *Cinnamomum camphora* plantation trees, compared to natural forest in Amani Nature Reserve? (2005)
- Vegetation composition and structure of the valley bottom and the upper slopes habitats in Amani Nature Reserve (2007)
- What plant species prefer gaps? A baseline study of Mbomole and Monga Forest in Amani Nature Reserve, Tanzania (2011)

### **Ecology**

- Herbivore response to leaf damage in two herbaceous species (1998)
- Assessing diversity, how species distance curves can be used for the ecological evaluation of tropical rainforests (2000)
- A comparison of invertebrate herbivory on native and introduced plant species in Amani Nature Reserve, Tanzania (2000)
- Extent of herbivory in patches of three flowering plant species (2000)
- Predation and dispersion of *Allanblackia stuhlmannii* seeds in the East Usambara (2000)

A survey of regeneration patterns and spatial distribution of *Cephalosphaera usambarensis*, in Amani Nature Reserve, East Usambara Mountains, Tanzania (2000)

The effect of canopy cover on the regeneration pattern and distribution of *Newtonia buchananii* (2001)

Levels of herbivory on three ecological categories of trees in the Amani Nature Reserve (2001)

A study of the leaf decomposition rate and amount of leaf litter of two gap and two emergent tree species in the Amani Nature Reserve, East Usambara Mountains, Tanzania (2001)

Am I attractive or not? A case study of *Thunbergia grandiflora* in Amani Nature Reserve (2002)

Plant-insect interactions in a liana species: A case study of *Thunbergia alata* at the Amani Nature Reserve in East Usambara, Tanzania (2002)

Comparative study of herbivory and herbivore diversity on two plant species of the genus *Piper* (Piperaceae), *Piper nigrum* and *P. umbellatum* in Amani Nature Reserve (2003)

A study of the relationship between size of tree and density of fruits, and the influence of light on fruits density of *Allanblackia stuhlmannii* in Amani Nature Reserve, Tanzania (2003)

Effects of tree fall gaps in vegetation composition (2007)

Visitor and reward patterns in *Thunbergia grandiflora* and *Cassia floribunda* (2007)

Influence of visual attractiveness and rewards on insect flower visitation in Amani Nature Reserve, Tanzania (2008)

Do natural floral path-edges act as wildlife corridors through the tea plantations of Amani Nature Reserve? (2009)

The effect of *Maesopsis*, *Macaranga* and *Cephalosphaera* on diversity of soil decomposer fauna in Amani Nature Reserve (2009)

Exotic versus indigenous trees: The current and future composition of forests in Amani Nature Reserve (2010)

Leaf production in relation to damage of seedlings in Amani Nature Reserve (2010)

Anthesis and reproductive phenology of *Dictyophleba lucida* (2011)

The effect of floral manipulation on the behaviour of visitors of *Helianthus* sp. and *Thunbergia alata* (2011)

Ant attendance and nectar production in male and female plants of *Lagenaria sphaerica* (2011)

### **Epiphytes**

Investigation of factors influencing the species richness of macro-epiphytes in Amani Nature Reserve, Tanzania (2000)

Distribution patterns of epiphytes in Amani or: Epiphytes - spirits of the rainforest (2001)

Abundance and diversity of epiphytes in native versus non-native tree species in Amani Nature Reserve (2008)

### **Pollination**

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Plant-insect interactions in a liana species: A case study of *Thunbergia alata* at the Amani Nature Reserve in East Usambara, Tanzania (2002)

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