

Monthly Report

May 2025



Ethiopian epauletted fruit bat (Epomophorus labiatus)







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Alfredo Joins the ABC Team!

By Alfredo Ortega Gonzalez, Research Assistant



Figure 1. ABC Research Assistant Alfredo.

Alfredo is a biologist with a strong interest in ecology, evolution, and conservation. He holds a BSc in Biology (cum laude) from the National Autonomous University of Mexico (UNAM). A curiosity-driven person by nature, Alfredo has a wide range of interests within biology. During his studies, he completed several placements and internships in diverse laboratory settings, ranging from biomedical and immunological research to applied ecology and bat conservation in Mexico. He was also a member of the Social Studies of Science and Technology Lab at the

Faculty of Science, where he developed his undergraduate thesis on the philosophical and historical dimensions of contemporary debates in evolutionary theory.

His passion for African ecosystems deepened when he was awarded a fully funded scholarship to spend a semester at the University of the Witwatersrand in Johannesburg as an exchange student in 2023. There, he was invited to take part in fieldwork projects in both South Africa and Eswatini, collaborating with an international team of students and researchers. During his time there, he gained experience working with camera traps, other species of small mammals, and assisted a project that aims to understand better the effects of the loss of megafauna in African savannas. After this experience, he set his sights on finding every possible opportunity to return to the continent and further remarkable explore its fauna, people, and ecosystems.

Alfredo's work with bats began when he became a research intern at the Ecology and Conservation of Terrestrial Vertebrates Lab. He contributed to various projects, including the first monitoring program of hibernating bats in Mexico, as well as a PhD study focused on populations of *Tadarida brasiliensis* in the arid ecosystems of northern Mexico. Following this, he co-led a bat







conservation project in a tropical rainforest reserve in southern Mexico, aimed at assessing bat diversity, delivering environmental education programs to local communities, and studying seed dispersal to support the potential restoration of fragmented landscapes.

Alfredo is excited to join African Bat Conservation, where his love and interest in bats and African ecosystems join perfectly together!

ABC Back at the Farmer's Market

By Luisa Auletta, Senior Research Assistant

Following an intensive fieldwork season supporting Felix's PhD research, the ABC team resumed its public engagement efforts by participating in the Lilongwe Farmers' Market. The aim of this outreach activity was to raise awareness about bat conservation and the ongoing research being conducted across Malawi.

The event provided a valuable platform for knowledge exchange and community engagement, allowing ABC to disseminate information on the ecological importance of bats and the role they play in pest control and ecosystem functioning (Figure 2). It also served as a practical training opportunity for new research assistants, Lusungu and Alfredo, who gained experience in communication and public outreach.

Over the course of the morning, 12 individuals engaged with the ABC stall. Some sought general information or educational materials, while others expressed interest in supporting



Figure 2. Harp trap with bat species pictures
SUPPORTING displayed at the farmer's market.

conservation efforts directly. Notably, all three bat boxes constructed by the team were sold, with proceeds being reinvested into the production of additional boxes. These sales not only promote the provision of artificial roosting sites for bats but also contribute to ABC's broader conservation and awareness objectives.







ABC Joins the CRM Team for a Hyaena Capture

By Luisa Auletta, Senior Research Assistant

Some members of the ABC team, Luisa, Lusungu, and Alfredo, were invited to support an exciting and important wildlife monitoring initiative led by Carnivore Research Malawi (CRM). The event involved the live capture and collaring of a spotted hyaena (*Crocuta crocuta*) in the Kumbali area on the outskirts of Lilongwe, where a small urban clan of four individuals has been observed.

The individual targeted during this operation, designated URBHY25, was selected for collaring as part of CRM's ongoing research to better understand the movement ecology, stress physiology, and health of urban-adapted carnivores in Malawi's capital. As Lilongwe continues to experience rapid urban expansion and major road development projects, understanding how species such as spotted hyaenas navigate fragmented and human-dominated landscapes is critical for both conservation and human-wildlife coexistence planning.

The objectives of the capture included the collection of biosamples, such as blood, hair, and faecal, for health assessments, including parasite load and



Figure 3. ABC Team with RM Paula and Dr. Hezy during the spotted hyaena capture.

disease screening, as well cortisol analysis to investigate stress levels in urban-dwelling individuals. Most importantly, a GPS collar was fitted to the animal, which will allow researchers to monitor the hyaena's spatial behavior over time. This includes identifying where the clan rests during daylight hours and mapping the corridors they use to move through the city at night.

The capture operation was successfully executed using best-practice animal welfare and sedation protocols. Once the hyaena was fully sedated, the CRM team, led by Research Manager Paula and Senior Research Assistant Andoni, carefully fitted the GPS collar. During the procedure, ABC team members







assisted by recording biometric measurements and supporting the veterinarian, Dr. Hesse, in monitoring the animal's vital signs, including heart rate, respiratory rate, and core temperature.

The entire process was completed efficiently and safely, and after all necessary data had been collected, the hyaena was administered a reversal agent. The animal regained mobility quickly and returned to its environment without incident.

This experience was not only a unique learning opportunity for ABC's research team but also a valuable example of inter-organisational collaboration in wildlife research and conservation.

The ABC team is deeply grateful to CRM for the chance to contribute to this vital work and looks forward to supporting future initiatives aimed at understanding and conserving urban hyaena clan.

ABC Talk and Bat Trapping Demonstration at Bishop Mackenzie

By Kieran O'Malley, Research Manager

The ABC team were recently invited to Bishop Mackenzie International School in Lilongwe to deliver a talk on bats and undertake a bat trapping demonstration for students and staff. The event provided a unique opportunity for students to learn more about Malawi's fascinating and ecologically important bat species.

The session began with a presentation by Kieran, who introduced the incredible diversity of bats found across Malawi and their vital roles in ecosystems, from controlling insect populations to pollinating plants and dispersing seeds. The talk finished with some enthusiastic questions from students, who expressed curiosity about bat behaviour, echolocation, and the benefits bats provide to both people and the environment.

Following the presentation, students had the opportunity to join the ABC team for a bat survey, which included using harp traps and mist nets to safely catch bats for study. The team demonstrated how captured bats are handled, identified, and processed, explaining how data on species, sex, age, and health are recorded before the animals are released unharmed. A total of eight bats were captured and processed during the survey, providing attendees with the opportunity to observe both fruit bats (Epomophorus







labiatus) and insectivorous species, including Scotophilus dinganii, Afronycteris nana, and Laephotis capensis, up close.



Figure 4. Ethiopian epauletted fruit bat (*Epomophorus labiatus*) captured during the trapping survey at Bishop Mackenzie.

Events like this are central to ABC's mission to inspire the next generation of conservationists and raise awareness of the importance of bats to biodiversity and human well-being. The ABC team was impressed by the level of interest and engagement shown by the students, many of whom were seeing bats up close for the first time.

ABC would like to thank Bishop Mackenzie for their warm welcome and continued support for conservation education.







Summary of Work

Bat surveys carried out in May 2025

| Date | Туре | Site code | Location | Total bats caught | Species caught / encountered |
|------------|---------------|-----------|----------|-------------------------|---|
| 06/05/2025 | PhD project | LLWKU10 | Lilongwe | 9 | Chaerephon pumilus, Epomophorus labiatus, Hipposideros (A), Scotoecus hindei |
| 08/05/2025 | PhD project | LLWO40 | Lilongwe | 17 | Afronycteris nana, Epomophorus wahlbergi, Laephotis (A), Rhinolophus hildebrandtii, Scotoecus hindei, Scotophilus dinganii, Vesper (A) |
| 13/05/2025 | Opportunistic | LLWO13 | Lilongwe | 8 | Afronycteris nana, Epomophorus labiatus, Laephotis (A), Laephotis capensis, Scotophilus dinganii, Vesper (A) |
| 15/05/2025 | Opportunistic | LLWO37 | Lilongwe | 13 | Afronycteris nana, Epomophorus (B), Epomophorus crypturus, Epomophorus Iabiatus, Vesper (A) |
| 20/05/2025 | Opportunistic | LLWO41 | Lilongwe | 14 | Afronycteris nana, Epomophorus labiatus, Mops (A), Rhinolophus hildebrandtii Complex, Scotophilus dinganii |
| 21/05/2025 | Opportunistic | LLWO08 | Lilongwe | 23 | Afronycteris nana, Epomophorus (A), Epomophorus labiatus, Scotoecus hindei, Scotophilus dinganii |
| 22/05/2025 | Opportunistic | LLWKU01 | Lilongwe | 17 | Afronycteris nana, Hipposideros (A), Rhinolophus fumigatus |
| 27/05/2025 | Opportunistic | LLWO17 | Lilongwe | 13 | Afronycteris nana, Chaerephon pumilus, Vesper (A) |
| 29/05/2025 | Opportunistic | LLWKU09 | Lilongwe | 6 | Epomophorus crypturus, Epomophorus labiatus, Epomophorus wahlbergi, Vesper (A) |







Biosamples collected May 2025

| Date | Survey type | Sample type | Site code | Location | No. samples | From which species |
|------------|---------------|-------------|-----------|----------|----------------|---|
| 06/05/2025 | PhD project | Wing punch | LLWKU10 | Lilongwe | 9 | Chaerephon pumilus, Hipposideros (A), Epomophorus Iabiatus, Scotoecus hindei |
| 06/05/2025 | PhD project | Hair | LLWKU10 | Lilongwe | 9 | Chaerephon pumilus, Epomophorus labiatus, Hipposideros (A), Scotoecus hindei |
| 06/05/2025 | PhD project | Faecal | LLWKU10 | Lilongwe | 5 | Epomophorus labiatus |
| 08/05/2025 | PhD project | Wing punch | LLWO40 | Lilongwe | 13 | Afronycteris nana, Epomophorus wahlbergi, Rhinolophus hildebrandtii Complex, Scotoecus hindei, Scotophilus dinganii, Vesper (A) |
| 08/05/2025 | PhD project | Hair | LLWO40 | Lilongwe | 13 | Afronycteris nana, Epomophorus wahlbergi, Rhinolophus hildebrandtii Complex, Scotoecus hindei, Scotophilus dinganii, Vesper (A) |
| 08/05/2025 | PhD project | Faecal | LLWO40 | Lilongwe | 5 | Afronycteris nana, Scotoecus hindei, Scotophilus dinganii, Vesper (A) |
| 08/05/2025 | PhD project | Parasite | LLWO40 | Lilongwe | 1 | Laephotis (A) |
| 13/05/2025 | Opportunistic | Faecal | LLWO13 | Lilongwe | 3 | Laephotis (A), Laephotis capensis, Scotophilus dinganii |
| 15/05/2025 | Opportunistic | Wing punch | LLWO37 | Lilongwe | 10 | Afronycteris nana, Epomophorus (B), Epomophorus crypturus, Epomophorus labiatus, Vesper (A) |
| 15/05/2025 | Opportunistic | Hair | LLWO37 | Lilongwe | 10 | Afronycteris nana, Epomophorus (B), Epomophorus crypturus, Epomophorus labiatus, Vesper (A) |







| 15/05/2025 | Opportunistic | Faecal | LLWO37 | Lilongwe | 5 | Afronycteris nana, Epomophorus (B), Epomophorus crypturus, Epomophorus labiatus, Vesper (A) |
|------------|---------------|------------|---------|----------|----|--|
| 15/05/2025 | Opportunistic | Parasite | LLWO37 | Lilongwe | 1 | Afronycteris nana |
| 20/05/2025 | Opportunistic | Wing punch | LLWO41 | Lilongwe | 11 | Afronycteris nana, Epomophorus labiatus, Scotoecus hindei, Scotophilus dinganii, Mops (A), Rhinolophus hildebrandtii Complex, Vesper (A) |
| 20/05/2025 | Opportunistic | Hair | LLWO41 | Lilongwe | 11 | Afronycteris nana, Epomophorus labiatus, Mops (A), Scotoecus hindei, Scotophilus dinganii, Rhinolophus hildebrandtii Complex, Vesper (A) |
| 20/05/2025 | Opportunistic | Faecal | LLWO41 | Lilongwe | 8 | Afronycteris nana, Epomophorus labiatus, Mops (A), Scotophilus dinganii, Rhinolophus hildebrandtii Complex, Vesper (A) |
| 21/05/2025 | Opportunistic | Wing punch | LLWO08 | Lilongwe | 15 | Afronycteris nana, Epomophorus crypturus/dobsonii, Epomophorus labiatus, Scotoecus hindei, Scotophilus dinganii |
| 21/05/2025 | Opportunistic | Hair | LLWO08 | Lilongwe | 15 | Afronycteris nana, Epomophorus crypturus/dobsonii, Epomophorus labiatus, Scotoecus hindei, Scotophilus dinganii |
| 21/05/2025 | Opportunistic | Faecal | LLWO08 | Lilongwe | 5 | Afronycteris nana, Epomophorus labiatus, Scotophilus dinganii |
| 22/05/2025 | Opportunistic | Wing punch | LLWKU01 | Lilongwe | 16 | Afronycteris nana, Hipposidero (A), Rhinolophus fumigatus, Scotoecus hindei |
| 22/05/2025 | Opportunistic | Hair | LLWKU01 | Lilongwe | 16 | Afronycteris nana, Hipposidero (A), Rhinolophus fumigatus, Scotoecus hindei |
| 22/05/2025 | Opportunistic | Faecal | LLWKU01 | Lilongwe | 9 | Afronycteris nana, Scotoecus hindei |
| 22/05/2025 | Opportunistic | Parasite | LLWKU01 | Lilongwe | 2 | Afronycteris nana, Hipposideros (A) |







| 27/05/2025 | Opportunistic | Wing punch | LLWO17 | Lilongwe | 9 | Afronycteris nana, Chaerephon pumilus, Epomophorus labiatus, Vesper (A) |
|------------|---------------|-------------|---------|----------|---|---|
| 27/05/2025 | Opportunistic | Hair | LLW017 | Lilongwe | 9 | Afronycteris nana, Chaerephon pumilus, Epomophorus labiatus, Vesper (A) |
| 27/05/2025 | Opportunistic | Faecal | LLW017 | Lilongwe | 5 | Afronycteris nana, Chaerephon pumilus, Epomophorus labiatus |
| 27/05/2025 | Opportunistic | Parasite | LLW017 | Lilongwe | 1 | Afronycteris nana |
| 27/05/2025 | Opportunistic | Saliva swab | LLW017 | Lilongwe | 7 | Afronycteris nana, Chaerephon pumilus, Epomophorus labiatus |
| 27/05/2025 | Opportunistic | Skin swab | LLW017 | Lilongwe | 7 | Afronycteris nana, Chaerephon pumilus, Epomophorus labiatus |
| 29/05/2025 | Opportunistic | Wing punch | LLWKU09 | Lilongwe | 6 | Epomophorus crypturus, Epomophorus labiatus, Epomophorus wahlbergi, Vesper (A) |
| 29/05/2025 | Opportunistic | Hair | LLWKU09 | Lilongwe | 6 | Epomophorus crypturus, Epomophorus labiatus, Epomophorus wahlbergi, Vesper (A) |
| 29/05/2025 | Opportunistic | Faecal | LLW | Lilongwe | 2 | Epomophorus wahlbergi, Vesper (A) |
| 29/05/2025 | Opportunistic | Saliva swab | LLWKU09 | Lilongwe | 6 | Epomophorus crypturus, Epomophorus labiatus, Epomophorus wahlbergi, Vesper (A) |
| 29/05/2025 | Opportunistic | Skin swab | LLW | Lilongwe | 6 | Epomophorus crypturus, Epomophorus labiatus, Epomophorus wahlbergi, Vesper (A) |
| | | | | | | |







Acoustic samples collected May 2025

| Date | Survey type | Site code | Location | Total no. recordings | Species caught / encountered |
|------------|---------------|-----------|----------|-------------------------|---|
| 06/05/2025 | PhD project | LLWKU10 | Lilongwe | 3 | Chaerephon pumilus, Hipposideros (A) Scotoecus hindei |
| 08/05/2025 | PhD project | LLWO40 | Lilongwe | 9 | Afronycteris nana, Epomophorus wahlbergi, Laephotis (A), Rhinolophus hildebrandtii Complex, Scotoecus hindei, Scotophilus dinganii, Vesper (A) |
| 13/05/2025 | Opportunistic | LLWO13 | Lilongwe | 4 | Afronycteris nana, Laephotis (A), Scotophilus dinganii, Vesper (A) |
| 27/05/2025 | Opportunistic | LLWO17 | Lilongwe | 2 | Vesper (A) |

Helpline calls received May 2025

| Date | Туре | Location | Details |
|------------|----------|----------------------|---|
| 15/05/2025 | WhatsApp | Lilongwe – Area 3 | Homeowner reported that there were bats in the roof of their office building in area 3 and asked whether we could undertake an exclusion. The ABC team have arranged to visit the office to undertake an external and internal inspection of the building and determine possible solutions. |







Total events / leaflets distributed May 2025

| Date | Туре | Location (incl. district) | Total people | Materials distributed | Outcomes |
|------------|--------------------|-----------------------------------|-----------------|--------------------------|--|
| 13/05/2025 | Talk | Lilongwe – Bishop Mackenzie | 10 | - | Talk about bat biology followed by a bat survey to show some of the bat species living in Lilongwe urban area. |
| 23/05/2025 | Questionnaire | Lilongwe – Area 3 | 1 | 5 | Questionnaire submitted to house owner about perception of wildlife as well as opinion regarding bats |
| 27/05/2025 | Questionnaire | Lilongwe – Kumbali | 1 | 10 | Questionnaire submitted to house owner about perception of wildlife as well as opinion regarding bats |
| 31/05/2025 | Farmer's market | Lilongwe – Woodlands | 12 | 21 | We engaged with the local community at the Farmers Market, which takes place on the last Saturday of each month, to showcase ABC's research and conservation efforts focused on African bat species. We were also able to sell one bat box during the event. |







ABC Project Species List

| Latin Name | Common Name | Liwonde NP | Lilongwe City | Nyika NP | Vwaza Marsh | Kasungu NP | Kuti WR & Salima | Other |
|-----------------------------|---------------------------------|---------------|------------------|-------------|----------------|---------------|------------------------|-------|
| Afronycteris nana | Banana bat | Х | Х | Х | Х | | Х | Х |
| Chaerephon sp. | Free-tailed bats | Х | Х | | Х | Х | Х | Х |
| Chaerephon ansorgei | Ansorge's free-tailed bat | Х | | | | | | |
| Chaerephon pumilus | Little free-tailed bat | Х | Х | | Х | Х | Х | Х |
| Eidolon helvum | Straw-coloured fruit bat | | Х | | | | | X |
| Epomophorus crypturus | Peters's epauletted fruit bat | х | х | | х | х | х | Х |
| Epomophorus sp. | Epauletted bats | Х | Х | | Χ | Х | X | Х |
| Epomophorus dobsonii | Dobson's epauletted fruit bat | | Х | | Х | | | |
| Epomophorus labiatus | Little epauletted fruit bat | Х | Х | | Х | Х | Х | X |
| Epomophorus wahlbergi | Wahlberg's epauletted fruit bat | х | х | | х | | х | Х |
| Eptesicus hottentotus | Long-tailed serotine | Х | | | | | | |
| Glauconycteris variegata | Variegated butterfly bat | х | х | | Х | | Х | Х |
| Hipposideros sp. | Roundleaf bats | Х | Х | | X | Х | X | Х |
| Hipposideros caffer | Sundevall's leaf-nosed bat | Х | Х | | Х | Х | Х | Х |
| Hipposideros ruber | Noack's leaf-nosed bat | Х | | | | | | |
| Kerivoula lanosa | Lesser woolly bat | | | | Χ | | | |
| Laephotis sp. | | X | Х | | X | Х | X | Х |
| Laephotis botswanae | Botswana long-eared bat | X | Х | | Χ | Х | Χ | Х |
| Macronycteris gigas | Giant leaf-nosed bat | | Х | | | | | Х |
| Macronycteris vittatus | Striped leaf-nosed bat | | | | | | Х | |
| Mimetillus thomasi | Thomas's flat headed bat | X | | | Χ | | | |
| Miniopterus sp. | long-fingered bats | X | | | Χ | | | Х |
| Miniopterus inflatus | | X | | | | | | |
| Miniopterus natalensis | | Х | | | | | | Х |
| Mops sp. | Free-tailed bats | Х | Х | | Х | Х | Х | Х |
| Mops condylurus | Angolan free-tailed bat | Х | Х | | Х | Х | Х | Х |
| Mops niveiventer | White-bellied free-tailed bat | Х | Х | | Х | | | X |
| Myonycteris angolensis | Angolan Rousette | | | | | | | Х |
| Myopterus whilteyi | | Х | | | | | | |







| Myotis welvitschii Welwitsch's myotis X X X X X X X X X X X X X X X X X X X | Myotis bocagii | Rufous myotis | Х | Х | | Х | | | Х |
|---|------------------------------|-------------------------------|---|---|---|---|---|---|---|
| Neoromicia sp. Pipistrelles X X X X X X X X X X X Neoromicia capensis X X X X X X X X X X X X X X X X X X | Myotis tricolor | Temminck's myotis | Х | | | Х | | | Χ |
| Neoromicia capensis Neoromicia rendalli Neoromicia guluensis Nycteris sp. Silit-faced bats X X X X X X X X X X X X X X X X X X X | Myotis welwitschii | Welwitsch's myotis | Х | Х | | | | | |
| Neoromicia rendalli Neoromicia zuluensis Nycteris sp. Slit-faced bats Nycteris srge Bates's slit-faced bat Nycteris grandis Large slit-faced bat Nycteris macrotis Large-eared slit-faced bat Nycteris macrotis Large-eared slit-faced bat Nycteris macrotis Nycteris nana Nycteris nana Nycteris nana Nycteris nebaica Egyptian slit faced bat X X X X X X X X X X X X X X X X X X X | Neoromicia sp. | Pipistrelles | Х | Х | | X | Х | Х | Χ |
| Nepromicia zuluensis Nycteris sp. Slit-faced bats X X X X X X X X X X X X X X X X X X X | Neoromicia capensis | | Х | Х | | | | | |
| Nycteris sp. Slit-faced bats X X X X X X X X X X X X X X X X X X X | Neoromicia rendalli | Rendall's serotine | Х | | | Х | | | |
| Nycteris arge Bates's slit-faced bat Nycteris grandis Large slit-faced bat Nycteris hispida Hairy slit-faced bat Nycteris macrotis Large-eared slit-faced bat X Nycteris nana Nycteris nana Nycteris thebaica Egyptian slit faced bat X X X X X X X X X X X X X | Neoromicia zuluensis | | | | | | Х | | |
| Nycteris grandis Large slit-faced bat Nycteris hispida Hairy slit-faced bat Nycteris macrotis Large-eared slit-faced bat X Nycteris nana Nycteris nana Nycteris thebaica Egyptian slit faced bat X Nyctriceinops schlieffeni Schlieffen's twighlight bat X X X X X X X X X X X X X | Nycteris sp. | Slit-faced bats | Х | Х | | Х | | Х | X |
| Nycteris hispida Hairy slit-faced bat Nycteris macrotis Large-eared slit-faced bat X X X X X X X X X X X X X X X X X X X | Nycteris arge | Bates's slit-faced bat | | | | Х | | | |
| Nycteris macrotis Large-eared slit-faced bat X X X X X X X X X X X X X X X X X X X | Nycteris grandis | Large slit-faced bat | Х | | | | | | |
| Nycteris nana Nycteris thebaica Egyptian slit faced bat X X X X X X X X X X X X X X X X X X X | Nycteris hispida | Hairy slit-faced bat | | | | Х | | Х | |
| Nycteris thebaica Egyptian slit faced bat X X X X X X X X X | Nycteris macrotis | Large-eared slit-faced bat | Х | Х | | | | Х | |
| Nycticeinops schlieffeni Schlieffen's twighlight bat X X X X X X X X X X X X X X X X X X X | Nycteris nana | | Х | | | | | | |
| Otomops martiensseni Large-eared free-tailed bat | Nycteris thebaica | Egyptian slit faced bat | Х | Х | | Х | | Х | |
| Pipistrellus sp. Pipistrelles X X X X X X X X X Pipistrelles X X X X X X X X X X X X X X X X X X X | Nycticeinops schlieffeni | Schlieffen's twighlight bat | Х | Х | | Х | Х | Х | Х |
| Pipistrellus anchietae Pipistrellus grandidieri X X Pipistrellus hesperidus Pipistrellus hesperidus Pipistrellus rueppellii Ruppell's pipistrelle X X X X X X X X X X X X X X X X X X | Otomops martiensseni | Large-eared free-tailed bat | | | | | | | Х |
| Pipistrellus grandidieri X Pipistrellus hesperidus Ruppell's pipistrelle X X X X X X X X X X X X X | Pipistrellus sp. | Pipistrelles | Х | Х | Х | Х | | | Х |
| Pipistrellus hesperidus Pipistrellus rueppellii Ruppell's pipistrelle X X X X X X X X X X X X X X X X X X | Pipistrellus anchietae | | | Х | | | | | |
| Pipistrellus rueppellii Ruppell's pipistrelle X X X X X X X X X X X X X X X X X X | Pipistrellus grandidieri | | Х | | | | | | Х |
| Rhinolophus sp. Horseshoe bats X X X X X X X X X X X X X X X X X X X | Pipistrellus hesperidus | | Х | | | | | | |
| Rhinolophus blasii Blasius horseshoe bat X Rhinolophus clivosus Geoffroy's horseshoe bat X Rhinolophus darlingi Darling's horseshoe bat X Rhinolophus fumigatus Ruppell's horseshoe bat X Rhinolophus fumigatus Hildebrandt's horseshoe bat X Rhinolophus hildebrandtii Hildebrandt's horseshoe bat X Rhinolophus lobatus Lander's horseshoe bat X Rousettus aegyptiacus Egyptian rousette X Rousettus lanosus Hairy rousette X Scotoecus albofuscus Light-winged lesser house bat X Scotoecus hirundo Dark-winged lesser house bat X Scotophilus sp. X Scotophilus dinganii Yellow-bellied house bat X Scotophilus White-bellied house bat X Scotophilus leucogaster | Pipistrellus rueppellii | Ruppell's pipistrelle | Х | | | Х | | Х | |
| Rhinolophus clivosus Geoffroy's horseshoe bat X Rhinolophus darlingi Darling's horseshoe bat X Rhinolophus fumigatus Ruppell's horseshoe bat X X X X X X X X X X X X X X X X X X X | Rhinolophus sp. | Horseshoe bats | Х | Х | | Х | Х | Х | Χ |
| Rhinolophus darlingi Darling's horseshoe bat Rhinolophus fumigatus Ruppell's horseshoe bat X X X X X X X X X X X X X | Rhinolophus blasii | Blasius horseshoe bat | | | | | | | Х |
| Rhinolophus fumigatus Ruppell's horseshoe bat X X X X X X X X X | Rhinolophus clivosus | Geoffroy's horseshoe bat | | Х | | | | | Х |
| Rhinolophus hildebrandtii Hildebrandt's horseshoe bat X X X X X X X X X X X X X X X X X X X | Rhinolophus darlingi | Darling's horseshoe bat | | | | | | | Х |
| hildebrandtii Hildebrandt's horseshoe bat X X X Rhinolophus lobatus Lander's horseshoe bat X X Rousettus aegyptiacus Egyptian rousette X X Rousettus lanosus Hairy rousette X X Scotoecus albofuscus Light-winged lesser house bat X X Scotoecus hirundo Dark-winged lesser house bat X X X X Scotophilus sp. X X X X X X Scotophilus dinganii Yellow-bellied house bat X X X X X Scotophilus leucogaster White-bellied house bat X X X X X | Rhinolophus fumigatus | Ruppell's horseshoe bat | Х | Х | | | Х | Χ | |
| Rousettus aegyptiacus Egyptian rousette X | Rhinolophus hildebrandtii | Hildebrandt's horseshoe bat | х | х | | х | | х | |
| Rousettus lanosus Hairy rousette Scotoecus albofuscus Light-winged lesser house bat X X X X X X X X X X X X X | Rhinolophus lobatus | Lander's horseshoe bat | | | | | | Х | |
| Scotoecus albofuscus Light-winged lesser house bat X Scotoecus hirundo Dark-winged lesser house bat X X X X X X X X X X X X X | Rousettus aegyptiacus | Egyptian rousette | Х | | | | | | |
| Scotoecus hirundo Dark-winged lesser house bat X X X X X X X X X X X X X X X X X X X | Rousettus lanosus | Hairy rousette | | | Х | | | | |
| Scotophilus sp. X X X X X X X X X X X X X X X X X X X | Scotoecus albofuscus | Light-winged lesser house bat | Х | | | | | | |
| Scotophilus dinganii Yellow-bellied house bat X X X X X X X X X X X X X X X X X X X | Scotoecus hirundo | Dark-winged lesser house bat | Х | Х | | X | | X | X |
| Scotophilus White-bellied house bat X X X X X X | Scotophilus sp. | | Х | Х | | Х | Х | Х | Х |
| leucogaster White-bellied house bat X X X X X X | Scotophilus dinganii | Yellow-bellied house bat | Х | Х | | X | Х | Х | X |
| Scotophilus nigrita Giant yellow house bat X | Scotophilus leucogaster | White-bellied house bat | х | х | | | х | | Х |
| | Scotophilus nigrita | Giant yellow house bat | Х | | | | | | |







| Scotophilus viridis | Green house bat | Х | Х | | | Х | |
|-----------------------|--------------------------|---|---|---|---|---|---|
| Tadarida aegyptica | Egyptian free-tailed bat | | Х | | | | Χ |
| Tadarida ventralis | Giant free-tailed bat | | | | | | Х |
| Taphozous mauritianus | Mauritian tomb bat | Х | Х | Х | Х | Х | |
| Triaenops persicus | Persian trident bat | Х | Х | | | | Χ |







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