HABITAT ASSESSMENT OF AARDVARK (Orycteropus afer) IN KAINJI LAKE NATIONAL PARK, NIGERIA

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ABSTRACT

Vegetation structures have been used to describe the habitat of wildlife species. Therefore, the assessment of the habitat of Aardvarks is very strategic to its conservation. Using field observational methods, the Global Positioning System, and the assistance of experienced Park rangers, this study located the Aardvark burrows to map out their coordinates. Two tracks were purposively selected based on a reconnaissance survey. Animal activities, inventory, size, the distance between burrows, number of active and abandoned burrows were recorded. Four borrows were randomly sampled using a 50 m x 50 m plot to identify trees and shrub species on each plot and a 10 m x 10 m plot was used to identify grass species. Soil samples were collected and analyzed. Overall, 12 (35%) active and 22 (65%) inactive burrows were identified. The average circumference of the burrows on the tracks was 2 m and the average distance from one burrow to another in the same area was 10 m. The wild animals associated with the burrows were Agama Lizard (Agama aculeate), and the cane rat (Thrynomyms swinderianus). Also, the dominant tree species enumerated within their habitat include Burkea africana, Ficus thonnigii, while the dominant shrub species were Grevia molle, and Securidata longipendiculata. Furthermore, Andropogon gayanus and Pennisetum purperium were the predominant grass species. The soil types from the burrow extract were mostly sandy/loamy. The study observed that Aardvarks prefer mixed woodland vegetation, on sandy/loamy soil as their habitat in Kainji Lake National Park. This habitat type must be maintained so that the existing population can thrive in the study area.

Keywords: Aardvark, Habitat, Active burrow, Inactive burrow, Reclusive.

INTRODUCTION

Aardvark Orycteropus afer is a medium-sized, stocky, burrowing, nocturnal mammal with porcine snouts native to Africa. It is the only living species of the order Tubulidentata although other prehistoric species and genera of Tubulidentata have been identified (Asher et al., 2009). Aardvarks Orycteropus afer are classified as 'Least Concern' due to their population status in the wild (Lindsey et al., 2008). However, their population numbers may be overestimated due to their reclusive nature and uncommon sightings. Aardvarks are ecologically important in grasslands as their burrows create a micro-habitat that facilitates the existence of other vertebrate species (Cilliers, 2002). Several nocturnal and diurnal species have been identified to use the Aardvark burrows for short or longterm shelter and a place to rear their young. According to a study, these species consists of mammals (n=25), birds (n=7), reptiles (n=6), and amphibian (n=1) (Whittington-Jones, 2006). One notable species that rely on Aardvark burrows is the critically endangered blue swallow, Hirundo atrocaerulea. Blue swallows are amongst the top five most threatened bird species in South Africa (Evans and Barnes, 2000). This species of birds nest in mist-belt grasslands and construct cupshaped nests in Aardvark burrows. Therefore, a loss of aardvarks and consequently, their burrows, could have dire consequences for blue swallow survival. Despite their importance in a range of different ecosystems, Aardvarks remains poorly studied and it is important to gain an understanding of this elusive animal's ecology. The effective management of animal species is enhanced when wildlife managers have detailed information about their habitat. The study aimed at assessing the location of Aardvark burrows and plant species associated with the habitats where burrows are found. Also, soil types within and around the burrows, and animal species associated with the burrows were investigated in the Borgu Sector of Kainji Lake National Park. This study will aid existing conservation activities or

programmes designed by the Park management for this species, and provide baseline information for further studies of the species.

MATERIALS AND METHODS Study Areas

The study was conducted in the Borgu Sector of Kainji Lake National Park, Nigeria which covers an area of 3,970.02 km². Kainji Lake National Park is the premier National Park in Nigeria situated in the Northern part of the country within the Northern Guinea Savanna and Sudan Savanna (Keay, 1959) and lies between latitude 9° 45¹ and 10° 23¹N and longitude 3° 40¹ and 5° 47¹E. The park has a total area of 5,340.82 km² separated into two distinct non-contagious sectors.

Method of data collection

The study was carried out specifically at the Oli Range of the Borgu Sector along the two tracks - Shehu Shagari and Gilbert Child between February to July 2015. The tracks were purposively selected along the course of the Oli River where Aardvark burrows were mostly sited from the reconnaissance survey. Global Positioning System (GPS) was used to map out all the coordinates of each borrows visited. A measuring tape was used to measure the circumference of each burrow and the distance of each burrow to the other was recorded. The

observation was conducted twice a month in the morning (between 6 am and 10 am) on each of the tracks to identify the animals associated with the burrows. The size of each burrow, the number of active (activities of Aardvark in the burrow e.g., fur, footprints, fresh faecal material of Aardvark) and abandoned (no activity of Aardvark) burrows, and other animal indicators around the burrows were recorded. Of the 10 burrows investigated, four were randomly sampled using a 50 m x 50 m plot to assess the dominant tree and 10 m x 10 m plots to assess shrubs and grasses around each burrow. Total inventory was done using direct census on the established plots. The species with the highest occurrence or population on the plots were considered dominant. This was done to establish any relationship with vegetation types in the choice of Aardvark habitat. Furthermore, soil samples were collected from three different horizons (O, A, & E) by digging into the soil close to the burrows. Thereafter, the samples were stored in polyethylene bags and taken to the laboratory for analysis. Soil types were determined using Squish and Jar test methods (Schulte and Hoskins, 2011). Animals that were sighted around the burrows and indices that were associated with each burrow were observed and recorded. This was done to establish any relationship with Aardvark burrows and other animals that use the burrows as micro-habitats.

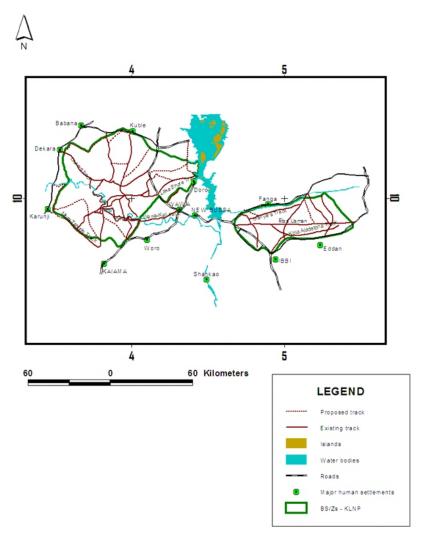


Figure 1: Existing and proposed game viewing tracks of Kainji Lake National Park.

STATISTICAL ANALYSIS

Data collected were collated and subjected to descriptive analysis using tables.

RESULTS

Ten tracks of Aardvark burrows were identified. They comprised the Shehu Shagari track (n=3) and Gilbert Child track (n=7), respectively (Table 1). Overall, 16 burrows were observed in the

Shehu Shagari track consisting of four active burrows and 12 inactive burrows, while in the Gilbert Child track, eighteen burrows were identified [active burrows (n=8) and inactive burrows (n=10)]. Hence, the number of active (Figure 1) and inactive burrows (Figure 2) in the two tracks was 12 (35%) and 22 (65%), respectively (Table 1).

Table 1: An estimate of Aardvark burrows in Oli Range, Borgu sector of Kainji Lake National Park.

| S/NO | Tracks | Active burrows | Inactive burrows | Total no of burrows | Average circumference burrows (M) | Average distance of burrows (M) |
|-------------------|---------------------|-------------------|---------------------|------------------------|---|---------------------------------------|
| 1 | Shehu Shagari Track | 3 | 3 | 6 | 2 | 6.2 |
| 2 | Shehu Shagari Track | 0 | 5 | 5 | 2 | 2 |
| 3 | Shehu Shagari Track | 1 | 4 | 5 | 1.4 | 10 |
| 4 | Gilbert Child track | 2 | 3 | 5 | 1.3 | 5 |
| 5 | Gilbert Child track | 1 | 0 | 1 | 2 | Nil |
| 6 | Gilbert Child track | 1 | 2 | 3 | 1.1 | 7.2 |
| 7 | Gilbert Child track | 1 | 4 | 5 | 1.4 | 4 |
| 8 | Gilbert Child track | 1 | 1 | 2 | 1.2 | 2.3 |
| 9 | Gilbert Child track | 1 | 0 | 1 | 2 | Nil |
| 10 | Gilbert Child track | 1 | 0 | 1 | 2 | Nil |
| Total /Percentage | | 12 (35) | 22 (65 |) 34 (9 | 2/6) | |

Total /Percentage 12 (35)

KEYS

FIELD SURVEY, 2019 M-Metre

Four burrows had a record of the activities of other animals in their burrows (Table 2). In the burrows discovered in the Shehu Shagari track, two had direct and indirect observations of these animal species i.e., Agama Lizard Agama aculeate, Francolin Francolinus bicalcaratus, Olive Baboon Papio anubis, and Monitor Lizard Varanus varanus. Of the burrows discovered in Gilbert Child track, two had direct and indirect observations of Olive Baboon Papio anubis and Kob Kobus kob.

Table 2: Animals associated with Aardvark burrows

| SPOT | Tracks | Animal Sighted (Number) | Animal indices | Inside borrow | the |
|------|---------------------|---|-----------------------|------------------|-----|
| 2 | Shehu Shagari Track | Agama lizard (Agama aculeata) (2) | Francolin feathers | Nil | |
| 3 | Shehu Shagari Track | Francolin (1) (Francolinus bicalcaratus) Baboon (1) (Papio anubis) | Baboon dung | Nil | |
| 5 | Gilbert child track | Monitor lizard (1) (Varanus varanus) Baboon (1) (Papio anubis) | Baboon skeleton | Nil | |
| 6 | Gilbert child track | Kob (1) (Kobus kob) | Kob skeleton | Nil | |

FIELD SURVEY, 2019

It was observed that animals inhabited large burrows, close to the bank of the River Oli, Open Woodland, and the Riparian vegetation dominated by some tree species. These include Burkea africana, Ficus thonnigii, Vitelaria paradoxa, Detarium microcapum, and Anogeissus leicarpus. The shrub species that dominate the burrows are Grewia molle, Securidata longipendiculata, and Sterculia setigera. Also, the grass species that are dominant around the burrows are Andropogon gayanus, and Pennisetum purpureum (Tables 3-6).

Table 3: Plant species around Aardvark burrows in the study area (Spot 1).

| S/NO | COORDINATES | TREE SPECIES | |
|------|----------------------|------------------------------|----------------------|
| 1 | Lat. N09°.54', 230" | BOTANICAL NAME | COMMON NAMES |
| | Long E 003°.58',404" | | |
| | | Ficus thonnigii * | Kawuri |
| | | Burkea africana * | Kurdi |
| | | Lannea schimperi | Fran |
| | | Monotes polyandra | Sassabani |
| | | Anogeissus leoicarpus | Marike |
| | | Parkia biglobosa | Dooroowa |
| | | Vitex doniana | Dinyaa |
| | | Acacia seyal | Dushe |
| | | | Dargaji |
| | | SHRUBS | |
| | | Grewia molle* | |
| | | Crossopteryx febrifuga | Common crown-berry |
| | | Pilliostigma thonnigii | Kaglo |
| | | Securidica longipendiculata* | Sanyai |
| | | GRASSES | |
| | | Andropogon gayanus * | Gamba grass |
| | | Commelina benghalensis | Wandering jew |
| | | Commelina diffusa | Spreading day flower |
| | | Eragrostis cilians | Love grass |
| | | Andropogon tectorum | Giant bluestem |
| | | Truimfetta rhombiodea | Chinese bar |
| | | Pennisetum purpureum* | Elephant grass |

Table 4: Plant species around Aardvark burrows in the study area (Spot 2).

| | COORDINATES | TREE SPECIES BOTANICAL NAME | COMMON NAME |
|---|---|------------------------------|-----------------------|
| 2 | Lat. N09°.54', 242" Long E 003°.58',430" | _ | |
| | , | Burkea africana* | Kurdi |
| | | Lannea schimperi | Farn |
| | | Ficus thonnigii * | Kawuri |
| | | Vitelaria paradoxa | Shea butter |
| | | Prosopis africana | Kiriya |
| | | Vitex doniana | Diayaa |
| | | Maranthes polyandra | Sassanbani |
| | | Pseudocedrela kotyschiyi | Tuna |
| | | Detarium microcapum | Tauraa |
| | | Anogeissus leoicarpus | Marike |
| | | J 1 | Kukuki |
| | | SHRUBS | |
| | | Sterculia setigera | |
| | | Crossopteryx ferifuge | Kastiya |
| | | Grewia mole* | Dargaji |
| | | Pilliostigma thonnigii | Kaglo |
| | | Secunega virosa | Tsa |
| | | Securidica longipendiculata* | Sanyai |
| | | GRASSES | |
| | | Pennisetum purpureum* | Elephant grass |
| | | Andropogon gayanus * | Gamba grass |
| | | Physalis anyulats | Wilds cape gooseberry |
| | | Andropogon tectorum | Giant bluestem |
| | | Physalis micrantha | Slender wild cape |
| | | Triumfetta rhombiodea | Chinese bur |

Table 5: Plant species around Aardvark burrows in the study area (Spot 5).

| S/NO | COORDINATES | TREE SPECIES | |
|------|----------------------|------------------------|---------------------|
| 5 | Lat. N09°.54', 402" | BOTANICAL NAME | COMMON NAMES |
| | Long E 003°.56',686" | | |
| | , | Bridelia ferruginea | Kokiyar biri |
| | | Tamarindus indica | Tsamiya |
| | | Afzelia africana | Kawo |
| | | Burkea africana* | Kurdi |
| | | Vitaleria paradoxa | kedeya |
| | | Detarium microcapum | Taurea |
| | | Vitex doniana | Dinya |
| | | Terminalia glaucesecns | Baushe |
| | | Boswellia dalzelia | Ararabi |
| | | Combretum nigerican | Ciriri |
| | | Sterculia setigera | Kukuki |
| | | Entada africana | Kaiwa |
| | | Pterocarpus erinaceus | Madobia |
| | | SHRUBS SPECIES | |
| | | Pilliostigma thonnigii | Kaglo |
| | | Malvvastrum caroman | False mallow |
| | | Sesamum indicum | Seasanu |
| | | GRASSES | |
| | | Spermacoce octodon | Lebrun stork |
| | | Andropogon gayanus* | Gamba grass |
| | | Pennisetum puperum* | Elephant grass |
| | | Brachiara deflexa | Schumach |
| | | Sida rhombifolia | Wire weed |
| | | Boerhavis diffusa | Red spiderly |

Table 6: Plant species around Aardvark burrows in the study area (Spot 6).

| S/NO | COORDINATES | TREE SPECIES | |
|------|----------------------|------------------------------|-----------------|
| 6 | Lat. N09°.54', 403" | BOTANICAL NAME | OTHERS NAME |
| | Long E 003°.56′,727″ | | |
| | | Danielia oliveri | African capaiba |
| | | Afzelia africana | Kawo |
| | | Detarium microcapum | Tauraa |
| | | Tamarindus indica | Tsamiya |
| | | Burkea africana* | Kurdi |
| | | Ficus thonnigii* | Kawuri |
| | | Viteleria paradoxa | Kedeya |
| | | Parkia biglobosa | Dooroowa |
| | | Anogeissus leiocarpus | Marike |
| | | Isoberlinia doka | Doka |
| | | Diospyros mespiliformis | Kanya |
| | | Lannea acida | Faru |
| | | Pterocarpus erinaceus | Madobia |
| | | SHRUBS SPECIES | |
| | | Securidica longipendiculada* | Sanyai |
| | | Grewia mole* | dargaji |
| | | Piliostigma thonnigii | Kaglo |
| | | Strichnos spinosa | Kokiya |
| | | Cochlospermum planchoni | Zunzuma |
| | | GRASSES | |
| | | Pennisetum purpureum* | Elephant grass |
| | | Tridax spp | 1 0 |
| | | Andropogon gayanus* | Gamba grass |
| | | Brachiara lata | Schumack |

The four plots diversity index was high (Table 7). It was observed that Shannon wiener's index, Evenness, Simpson indexes, and Dominance were high. The Shannon Weiner and Shannon equitability indices are within the general limits of

1.5-3.5 for healthy forests and this indicates that the habitat is highly diverse with trees dominating its structures and functions which can support Aardvark ecological activities in the range.

Table 7: Diversity of tree species composition around Aardvark burrows in the study areas.

| Locations | Taxa sp | ecies individual spe | cies Dominai | nce Simps | on Shan | non Eve | nness |
|-----------|---------|----------------------|--------------|-----------|---------|---------|-------|
| Spot 1 | 12 | 12 | 0.8333 | 0.9167 | 2.485 | 1 | |
| Spot 2 | 16 | 16 | 0.0625 | 0.9375 | 2.773 | 1 | |
| Spot 5 | 14 | 14 | 0.07143 | 0.9286 | 2.638 | 1 | |
| Spot 6 | 15 | 15 | 0.6667 | 0.9333 | 2.708 | 1 | |

FIELD SURVEY, 2019

The preferred soil type around and inside the Aardvark burrows in the study area is sandy/loamy (Table 8).

Table 8: Soil types around and inside the Aardvark burrows in Oli Range, Borgu sector of Kainji Lake National Park.

| SPOT | BURROWS COORDINATE | LOCATION | 0 | A | E | I.B. |
|------|---|------------------------|------------------|------------------|-------|--------------|
| 1 | Lat. N09°.54', 205" Long E 003°.58',327" | Shehu Shagari track | Humous/ loamy | Clay | Loamy | Loamy |
| 2 | Lat. N09°.54', 230" Long E 003°.58',404" | Shehu Shagari track | Humous | Sandy /loamy | Sandy | Sandy /loamy |
| 4 | Lat. N09°.54′,364″ Long.E003°.58′,513″ | Gilbert Child track | Humous | Sandy/ Loamy | Loamy | Sandy/ loamy |
| 5 | Lat. N09°.54', 364" Long E 003°.58',513" | Gilbert Child track | Humous | Humous/ Sandy | Loamy | Sandy/loamy |

| KEYS | |
|--------------|-----------------------------|
| SOIL | |
| PROFILE | |
| О | Top layer |
| A | Middle layer |
| \mathbf{E} | Last layer |
| I.B. | Extracts from inside burrow |

FIELD SURVEY, 2019



Figure 1: An active Aardvark burrow in the study area.



Figure 2: An inactive or abandoned Aardvark burrow in the study area.

DISCUSSION

The study established the presence of Aardvark in the study areas, which is in agreement with previous reports (Ayeni, 2007; Ajayi, 2014) at the Kainji Lake National Park. We observed that most (65%) of the burrows were inactive, which is an indication that the activities and population of the species may face a future threat in the study area if proper management practices such as antipoaching patrols along the course of the river Oli are not adequately addressed. This finding is in agreement with the report of Anon (2013) that indicated that few people understand the ecological importance of the Aardvark and as their natural habitat continues to decline, a simple, yet integrated system may be lost. Various animal species were associated with the active burrows (Table 2). This observation supports the report of Cilliers (2002) and Whittington-Jones (2006) that nocturnal and diurnal species make use of Aardvark burrows as short or long-term shelter and as a place to rear their young ones. Also, these burrows serve as a refuge for many animals during wildfire season in the savanna ecosystem. Hence, the survival of Aardvark creates a micro-habitat that facilities the existence of all these vertebrate species. Aardvark Orycteropus afer is a predominantly nocturnal, solitary, and secretive semi-fossorial mammal endemic to Africa south of the Sahara. It was observed that the animal inhabits large burrows, close to the bank of the River Oli, Open Woodland, and Riparian vegetation that is dominated by some trees, shrubs, and grass species. This is in agreement with the observation of Evans and Bouwman, (2010) that the animal inhabits open woodland, scrub, and grassland areas of Southern Africa, and is generally absent from forests, deserts, and rocky mountainous terrain. Also, the preferred soil type around and inside the Aardvark burrows in the study area was sandy/loamy. This soil type has insulating properties which resulted in the moderate below-ground environment of burrows providing suitable shelter in both hot summers and cold winters for a variety of species (Reichman and Smith, 1990; Finlayson et al., 2005).

CONCLUSION

The study on the habitat assessment of Aardvark revealed that specific wild animals, trees, shrubs, and grass species were associated with the active burrows. Also, the study revealed that Aardvarks preferred mixed woodland vegetation with sandy/loamy soil as the common soil type inside the Aardvark burrows. Further studies should be conducted on Aardvark species conservation, habitat requirements, and feeding ecology of the animals which can help to sustain the present population of Aardvarks in the study area.

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APPENDIX1: Coordinate and locations of Aardvark burrows in Oli Range Borgu sector of Kainji Lake National Park.

| S/NO | COORDINATES | TRACKS |
|------|----------------------------------|---------------------|
| 1 | Lat. N09 ⁰ .54', 205" | Shehu Shagari track |
| | Long E 003°.58,377" | |
| 2 | Lat. N09 ^o .54', 230" | Shehu Shagari track |
| | Long E 003°.50,404" | |
| 3 | Lat. N09 ⁰ .54', 242" | Shehu Shagari track |
| | Long E 003°.58,430" | |
| 4 | Lat. N09 ^o .54', 364" | Gilbert Child Track |
| | Long E 003°, 513" | |
| 5 | Lat. N09 ^o .54', 402" | Gilbert Child Track |
| | Long E 003 ⁰ .56,686" | |
| 6 | Lat. N09 ⁰ .54', 404" | Gilbert Child Track |
| | Long E 003°.56,727" | |
| 7 | Lat. N09 ⁰ .54', 412" | Gilbert Child Track |
| | Long E 003°.56,673" | |
| 8 | Lat. N09 ⁰ .54', 459" | Gilbert Child Track |
| _ | Long E 003°.56,641" | |
| 9 | Lat. N09 ⁰ .54', 458" | Gilbert Child Track |
| 4.0 | Long E 003°.56,664" | |
| 10 | Lat. N09 ⁰ .54', 453" | Gilbert Child Track |
| | Long E 003 ⁰ .56,705" | |