

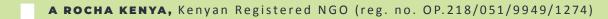
# Conservation Strategy

# A Rocha Dakatcha Nature Reserve

Creating a safe haven for five Red Listed species in the Dakatcha Key Biodiversity Area, Kenya



# Organisation - A Rocha Kenya



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### A well-established local organisation

A Rocha Kenya (ARK) is a well-established Christian environmental NGO registered in Kenya and **committed to practical bio-diversity conservation** through scientific research, environmental education and sustainable community-based conservation programmes.

Since 1999, we have been working closely with local authorities, communities and conservation organisations to **restore threatened habitats and protect endangered species** within two landscapes: Arabuko-Sokoke Forest (ASF) and Dakatcha Woodlands (DW); and two coastal seascapes: Mida Creek and the Watamu Marine National Park.



### A proven track-record in project management

Our technical, managerial and financial experience in initiating and managing projects is demonstrated through our projects including:

- Implementing the <u>Arabuko-Sokoke Schools and Eco-Tourism Scheme</u> (ASSETS), which uses eco-tourism funds to provide eco-bursaries to children living around the forest. Over 660 students have been funded through secondary school and their families engaged in practical conservation activities.
- Setting up long-term bird monitoring schemes: locally by running regular waterbird counts and bird ringing studies; nationally by being the lead partner in implementing the citizen science <u>Kenya Bird Map</u> in 2013; and internationally by scaling up the atlas to the African Bird Atlas Project.
- Publishing digitized datasets for Arabuko-Sokoke Forest (ASF) biodiversity on the <u>Global Biodiversity Information Facility</u> to inform management decision-making, using funding from the European Union Biodiversity Information for Development programme. ARK is just one of four GBIF publishers in Kenya.
- Contributing to the governance of the Watamu Marine National Park through the Global Challenges Research Fund
  project "Community Capabilities and Marine Protected Area Governance" in collaboration with the University of St
  Andrews, UK.
- Effectively engaging with local communities to help improve livelihoods and increase their understanding of caring for the environment through sustainable living with a focus on restorative farming methods.



## A solid field understanding of the Dakatcha Woodlands (DW)

ARK has been working in the Dakatcha Woodlands (DW) for 20 years. Our **scientific monitoring** has confirmed the **importance of this woodland for endangered and endemic species** such as Sokoke Scops Owl (*Otus ireneae*), Clarke's Weaver¹ (*Ploceus golandi*) and Golden-rumped Elephant-shrew (*Rhynchocyon chrysopygus*). We started land acquisition in 2014 in response to the rapid habitat loss observed, and have already acquired 1 517 acres of forest of a planned 10 500 acres reserve, the A Rocha Dakatcha Nature Reserve (ARDNR). We are working with local churches, farmers and schools in this area around the reserve to engage them in habitat protection and restoration, and provide sustainable income-generating activities.

Our track record of trusted relationships with communities, solid knowledge of the natural environment, and successful land purchase in the area puts us in a vantage position to establish the necessary protected area.



### A broad network of expertise

ARK is part of the international A Rocha network, which is a member of the International Union for the Conservation of Nature (IUCN). The ARDNR is part of in A Rocha's <u>African Tropical Forest Programme</u>, through which four African A Rocha organisations share resources, networks and expertise on forest and protected area management with close support from A Rocha International.

# Project area - ARDNR

### Project area & wider landscape

### Wider landscape

Dakatcha Woodland (DW) is located about 150 km north of Mombasa and 25-50 km inland from the coast. It covers an area of **465 070 acres**, of which 32% is forest, 17% is woodland, and 50% has been converted to farming or open grazing land<sup>2</sup>. DW lies within the **Northern Zanzibar-Inhambane Coastal Forest Mosaic ecoregion and East African Coastal Forest Hotspot**, characterized by a complex mix of moist and drier forest with coastal thicket, savanna woodlands and swamps<sup>3</sup>. DW itself is a diverse mosaic of different forest types, savannah and seasonal wetlands.

Of the remaining 617 765 acres of coastal forest in this ecoregion, ASF protects 91 430 acres and Shimba Hills protects 47 445 acres, though the latter lacks most of the key threatened species. DW is therefore of **critical importance to the conservation of a number of coastal endemic species** but it is largely unprotected having only two small private reserves: ARK's 1 517 acres, and Nature Kenya's (NK) 800 acres reserve for the Clarke's Weaver breeding habitat; and eight Community Conserved Areas (CCAs) covering 19 770 acres, though with very limited protection.

### Project area: ARDNR

ARK has focussed on an area of DW that contains the only significant remaining areas of *Cynometra webberi* forest remaining, which is the preferred habitat of the Endangered Sokoke Scops Owl. In addition, stands of *Brachystegia spiciformis* and small seasonal rivers and wetlands provide the correct breeding habitat for Clarke's Weaver (EN). The area also includes forest dominated by *Diospyros cornii* and *Newtonia hildebrandtii* on gently undulating land, interspersed with grassland and meadows, and abandoned farms. Some areas have already been heavily impacted by charcoal burning.

A detailed map of the Dakatcha KBA can be found in Annex 1.



**Q** -2.928, 39.809

## **Biodiversity value**

East African Coastal Forests have some of the **highest densities of endemic species in the world**<sup>4</sup>. DW meets **Important Bird Area** (IBA) and **Key Biodiversity Area** (KBA) criteria and is part of the Coastal Forests Global Hotspot. ARK surveys in the existing ARDNR have recorded:



Mammals

15 species of mammals, including the globally Endangered and endemic Golden-rumped Elephant-shrew, whose existence north of Sabaki River was confirmed only recently by our camera trapping work.



Birds

the globally Endangered
Sokoke Scops Owl (found
only in DW, ASF and the East
Usambaras) and Sokoke
Pipit Anthus sokokensis, both
endemic to coastal forest;
and the Near-Threatened
Southern-Banded Snake Eagle
Circaetus fasciolatus.



Insects

several butterfly species which are represented by only two or three specimens in the National Museum of Kenya collection of over 30 million specimens, and a specimen in the *Embiopteron* family (Insecta), which was the first for Kenya.



Flor

two globally Vulnerable tree species: *Warbugia stuhlmannii* and *Cynometra webberi* 

### **Main threats**

The fragmented Coastal Forests of Eastern Africa are among the ten most threatened forest hotspots in the world<sup>5</sup>, and the Dakatcha IBA is listed as an *IBA in Danger*, with a *very high* threat score and a *low* action score<sup>6</sup>. At a regional level, the pressure on land is expected to intensify as population increases, small holders and industrial agricultural expand, and coastal urban developments multiply.

The growing local population depends on the forest resources for their energy (wood), construction needs (wood), food (mammals) and livelihoods (sale of charcoal, timber, meat). As a result, deforestation and poaching of wildlife, including the Golden-rumped Elephant-shrew, are rife. Brachylaena huillensis trees have almost disappeared due to selective harvesting for the wood carving industry, and the timber from large hardwood trees (e.g. Newtonia hildebrandtii) has been sold in coastal towns.

Agriculture is the main economic activity for local communities, making land their most valuable asset. Pineapples have become an important source of income for local farmers because they grow particularly well on the red soils. Local regulations give little consideration to the immense pressure placed on the forest, and poor farming methods leave the soil exposed for erosion.

The pressure on the land was compounded by the start of land adjudication in the area in September 2020. This has set off an unprecedented rush of poeple land purchasing for farms closely linked to charcoal burning that is decimating the forest and destroying the home of the rare and endangered wildlife. The easy availability of power saws to cut trees for charcoal and motorbikes to transport charcoal to Malindi has exasperated the situation further.

At site level, **agricultural expansion**, unregulated logging, charcoal burning and the expansion of commercial pineapple plantations are rapidly destroying and degrading what is left of the unique forest habitat around ARDNR.





### Why land purchase?

The competition to acquire land in DW is intensifying: **commercial interest is high**, both from large companies and charcoal burners. If we do not acquire land soon this internationally important forest will disappear in the coming years.

Our approach is defined by 20 years of experience in this landscape and comes as a realistic response to the threats faced. As the forest is increasingly fragmented, there is an **urgent need to secure a core reserve** in the landscape that is under unambiguous conservation management.

While we saw clear benefits with NK's Conservation Community Areas, we also recognised the difficulties of this approach in maintaining 'conservation agreements' amongst a multi-stakeholder group. Local land ownership is complex with many family members involved so it has proven difficult to secure a positive conservation consensus.

It may be possible that the government will pursue formal gazettement of the forest in the future, but we know this strategy to have failed adjacent to ASF in the recent past.

There is simply **too much urgency for us to wait**. We therefore concluded that it was most effective to buy land and create a conservation area while working alongside our neighbours on sustainable development and education activities. This approach is working: our current existing reserve is well-respected and intact. The standing forest offers a sharp contrast to the surrounding areas. In 2019, NK followed our lead and started to acquire land in DW too.

### Area to acquire

With the rapid rate of forest destruction, we urgently need to acquire more land in order to maintain viable populations of Sokoke Scops Owl and Golden-rumped Elephant-shrew. We are therefore focussing on securing land parcels that our field surveys have confirmed hold populations of at least one of the **three Endangered species**: Sokoke Scops Owl, Golden-rumped Elephant-shrew and Sokoke Pipit. Our strategy is to **connect all the land parcels we currently own to create a single continuous reserve**, facilitating both connectivity for dispersal and reserve management.

The land is community-owned, with ownership identified with families or individual farmers. Several **families have already been approached by ARK and are willing to sell land parcels**. Others will be approached as we secure funding to acquire more land. When compensated appropriately, most farmers are willing to sell some of their land. We always ensure they retain sufficient land to sustain their subsistence farming.

#### Land

To date, ARK has acquired land following local customary purchase procedures. This involves the Public Administration Office, Chief, Sub-chief, and village Elders together with the land owner, their relatives, and the owners of the neighbouring land to reach full agreement on the position of boundary lines. The government has started to adjudicate the land in the area and ARK will soon be issued with a letter of allotment. Once this happens ARK can acquire a title deed for the land.

### **Restoration activities**

We are drafting a Land Management Plan for activities in the reserve and to restore degraded habitats. This will include an assessment of habitat damage and natural regeneration, as well as the creation of permanent plots to measure habitat change and monitor biodiversity. We plan to restore destroyed areas through managed natural regeneration and the removal of invasive species. Through all these activities, we will actively involve local communities in the protection of the forest.

ARK is already helping to preserve this landscape through **scientific research and environmental education** in local schools and churches, and by engaging community members in sustainable farming practices. We will also implement **sustainable incomegenerating activities**, encouraging local communities to do butterfly farming, bee-keeping and tree planting in the reserve.

### **Partners**



TAKEHOLDER

**Local communities.** Farmers, Churches, Charcoal producers, Wood carvers, Private sector, the Dakatcha Woodland Conservation Group

**Authorities.** Kenya Forest Service, Kenya Wildlife Service, Kilifi County

**NGOs.** Action Aid, Anglican Development Services, Ministry of Education, Nature Kenya, World Vision

Bob Scott Foundation
A.G.Leventis Foundation
Eden Wildlife Trust
Individual donors
Lordship Africa
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OTHER DONORS

# Sustainable Development Goals

The purchase of land and restoration activities in Dakatcha contribute to 10 of the 17 Sustainable Development Goals:



# References



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# Credits





### Bibliography

- 1. Jackson, C. H., Ng'weno, F., Mwambire, J., Mwachongo, J., Baya, A., Changawa, P., ... & Thuva, K. (2015). First recorded breeding of Clarke's Weaver Ploceus golandi. *Scopus: Journal of East African Ornithology, 35*(1), 1-10.
- 2. Nature Kenya, Participatory Management Plan for Dakatcha Woodland 2015-2019
- 3. World Wildlife Fund (2020) Eastern Africa: Coastal areas of Kenya, Somalia, and Tanzania. Retrieved from www.worldwildlife.org/ecoregions/at0125 on 30/04/2020
- 4. Myers, N., Mittermeier, R. A., Mittermeier, C. G., Da Fonseca, G. A., & Kent, J. (2000). Biodiversity hotspots for conservation priorities. *Nature*, 403(6772), 853.
- 5. African Conservation (2011) Conservation International Highlights Forest Ecosystems on the Edge of Collapse Retrieved from https://african-conservation.org/conservation-international-highlights-forest-ecosystems-on-the-edge-of-collapse-5/ on 26/04/2020
- 6. BirdLife International (2020) Important Bird Areas factsheet: Dakatcha Woodland. Downloaded from http://www.birdlife.org on 26/04/2020.

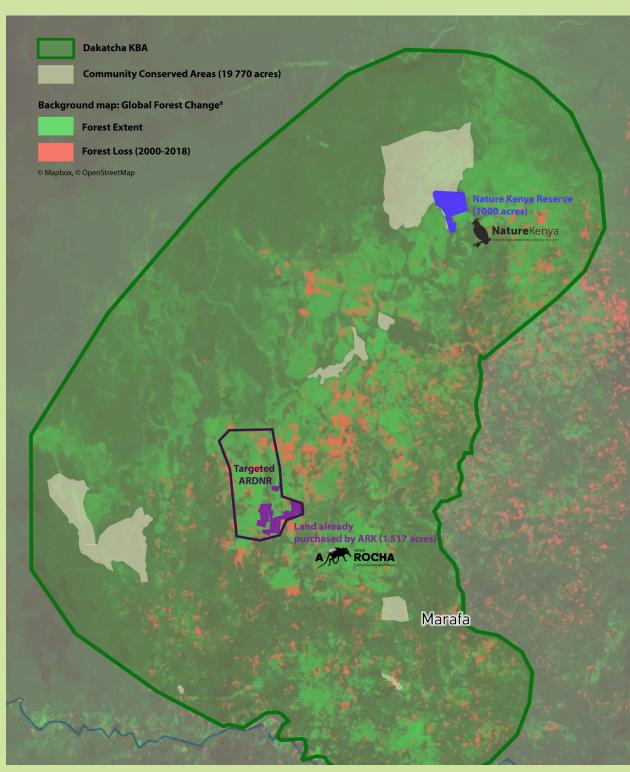


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- 1. Sarah Young, A Rocha International, ARDNR
- 2. A Rocha Kenya, Illegal Logging in ARDNR
- 3. Mustafa Adamjee, Sokoke Scops Owl
- 4. A Rocha Kenya, Biodiversity Survey in ARDNR
- 5. Lars Petersson, Golden-rumped Elephant-shrew
- 6. Raphaël Nussbaumer, Citrus Swallowtail
- 7. A Rocha Kenya, Brachystegia spiciformis

# Annex 1:

# Map of the project area





### Dakatcha IBA / KBA

BirdLife International (2020) Important
Bird Areas factsheet: Dakatcha Woodland.
Downloaded from http://www.birdlife.org on
26/04/2020. (Updated boundaries)



### Global Forest Change

Hansen et al. (2013) High-Resolution Global Maps of 21st-Century Forest Cover Change, Nature, Vol 324

# Annex 2:

# Biodiversity Lists for A Rocha Dakatcha Nature Reserve



### LIST OF BIRD SPECIES

Occurr	ence is based on 177 full protocols su	ubmitted on <u>Kenya Bi</u> i	rd Map	+++ ++ +	100%
001	Helmeted Guineafowl Numida meleagris	++	020	Black Cuckoo Cuculus clamosus	+
002	<b>Crested Guineafowl</b> Guttera edouardi	+	021	African Cuckoo Cuculus gularis	+
003	<b>Coqui Francolin</b> Peliperdix coqui	++	022	Common Cuckoo Cuculus canorus	+
004	Crested Francolin Dendroperdix sephaena	+++	023	Red-eyed Dove Streptopelia semitorquata	+++
005	White-faced Duck Dendrocygna viduata	+	024	Ring-necked Dove Streptopelia capicola	+++
006	Knob-billed Duck Sarkidiornis melanotos	+	025	Emerald-spotted Wood-dove Turtur chalcospilos	+++
007	European Nightjar Caprimulgus europaeus	+	026	Tambourine Dove Turtur tympanistria	++
008	Fiery-necked Nightjar Caprimulgus pectoralis	++	027	Namaqua Dove Oena capensis	+
009	<b>Mottled Spinetail</b> <i>Telacanthura ussheri</i>	+	028	African Green-pigeon Treron calvus	++
010	African Palm-swift Cypsiurus parvus	++	029	Black Crake Amaurornis flavirostris	+
011	<b>Little Swift</b> Apus affinis	++	030	Allen's Gallinule Porphyrio alleni	+
012	Fischer's Turaco Tauraco fischeri	NT> ++	031	Common Moorhen Gallinula chloropus	+
013	White-browed Coucal Centropus superciliosus	+++	032	Red-knobbed Coot Fulica cristata	+
014	<b>Green Malkoha</b> Ceuthmochares australis	++	033	Black-headed Lapwing Vanellus tectus	+
015	<b>Levaillant's Cuckoo</b> Clamator levaillantii	+	034	Senegal Lapwing Vanellus lugubris	++
016	Jacobin Cuckoo Clamator jacobinus	++	035	<b>African Jacana</b> Actophilornis africanus	++
017	<b>Thick-billed Cuckoo</b> Pachycoccyx audeberti	+	036	<b>Green Sandpiper</b> <i>Tringa ochropus</i>	+
018	Diderick Cuckoo Chrysococcyx caprius	+	037	Common Greenshank Tringa nebularia	+
019	Klaas's Cuckoo Chrysococcyx klaas	++	038	Madagascar Pratincole Glareola ocularis	+

039	<b>Yellow-billed Stork</b> Mycteria ibis	+	063	Black Sparrowhawk Accipiter melanoleucus	+
040	African Openbill Anastomus lamelligerus	+	064	Black Kite Milvus migrans	+
041	Woolly-necked Stork Ciconia episcopus	+	065	Yellow-billed Kite Milvus aegyptius	+
042	Saddle-billed Stork Ephippiorhynchus senegalensis	+	066	Sokoke Scops-owl Otus ireneae	++
043	Reed Cormorant Phalacrocorax africanus	+	067	African Wood-owl Strix woodfordii	++
044	Hadeda Ibis Bostrychia hagedash	++	068	Pearl-spotted Owlet Glaucidium perlatum	+
045	Glossy Ibis Plegadis falcinellus	+	069	African Barred Owlet Glaucidium capense	++
046	African Spoonbill Platalea alba	+	070	Speckled Mousebird Colius striatus	++
047	Black-headed Heron Ardea melanocephala	+	071	Blue-naped Mousebird Urocolius macrourus	+
048	<b>Great Egret</b> <i>Egretta alba</i>	+	072	Narina Trogon Apaloderma narina	++
049	Black-shouldered Kite Elanus caeruleus	++	073	Eurasian Hoopoe Upupa epops	++
050	African Harrier-Hawk Polyboroides typus	+	074	African Hoopoe Upupa africana	+
051	European Honey-buzzard Pernis apivorus	+	075	Green Wood-hoopoe Phoeniculus purpureus	+++
052	African Cuckoo Hawk Aviceda cuculoides	+	076	Common Scimitarbill Rhinopomastus cyanomelas	+++
053	Black-chested Snake-eagle Circaetus pectoralis	+	077	Von der Decken's Hornbill Tockus deckeni	++
054	Brown Snake-eagle Circaetus cinereus	+	078	Crowned Hornbill Tockus alboterminatus	+++
055	Southern Banded Snake-eagle Circaetus fasciolatus	++	079	African Grey Hornbill Tockus nasutus	++
056	Bateleur Bateleur Terathopius ecaudatus	+	080	Trumpeter Hornbill Bycanistes bucinator	++
057	Martial Eagle Polemaetus bellicosus	+	081	<b>Silvery-cheeked Hornbill</b> <i>Bycanistes brevis</i>	+
058	<b>Wahlberg's Eagle</b> Aquila wahlbergi	+	082	<b>Lilac-breasted Roller</b> Coracias caudatus	+++
059	<b>Lizard Buzzard</b> Kaupifalco monogrammicus	+++	083	European Roller Coracias garrulus	++
060	Eastern Chanting-goshawk Melierax poliopterus	+	084	Broad-billed Roller Eurystomus glaucurus	++
061	African Goshawk Accipiter tachiro	++	085	Grey-headed Kingfisher Halcyon leucocephala	++
062	Little Sparrowhawk Accipiter minullus	++	086	Striped Kingfisher Halcyon chelicuti	+++

087	Malachite Kingfisher Alcedo cristata	+	111	Black-crowned Tchagra Tchagra senegalus	+++
088	Little Bee-eater Merops pusillus	++	112	Black-backed Puffback Dryoscopus cubla	++
089	White-fronted Bee-eater Merops bullockoides	+	113	Slate-colored Boubou Laniarius funebris	++
090	White-throated Bee-eater Merops albicollis	++	114	East Coast Boubou Laniarius sublacteus	+
091	Madagascar Bee-eater Merops superciliosus	++	115	White-crested Helmet-shrike Prionops plumatus	+
092	European Bee-eater Merops apiaster	+	116	Retz's Helmet-shrike Prionops retzii	+++
093	Northern Carmine Bee-eater Merops nubicus	++	117	Chestnut-fronted Helmet-shrike Prionops scopifrons	++
094	Red-fronted Tinkerbird Pogoniulus pusillus	+++	118	Black Cuckoo-shrike Campephaga flava	++
095	Black-collared Barbet Lybius torquatus	++	119	White-rumped (Northern White- crowned) Shrike Eurocephalus rueppelli	+++
096	Brown-breasted Barbet Lybius melanopterus	++	120	Red-backed Shrike Lanius collurio	++
097	Red-and-yellow Barbet Trachyphonus erythrocephalus	++	121	Red- (Rufous-) tailed (Isabelline) Shrike Lanius isabellinus	+
098	Pallid Honeyguide Indicator meliphilus	+	122	Long-tailed Fiscal  Lanius cabanisi	++
099	Lesser Honeyguide Indicator minor	++	123	Black-headed Oriole Oriolus larvatus	+++
100	Scaly-throated Honeyguide Indicator variegatus	++	124	African Golden Oriole Oriolus auratus	++
101	Greater Honeyguide Indicator indicator	+	125	<b>Eurasian Golden Oriole</b> <i>Oriolus oriolus</i>	++
102	<b>Nubian Woodpecker</b> Campethera nubica	++	126	Fork-tailed Drongo Dicrurus adsimilis	+++
103	Mombasa Woodpecker Campethera mombassica	++	127	African Paradise-flycatcher Terpsiphone viridis	++
104	Green-backed Woodpecker Campethera cailliautii	+	128	House Crow Corvus splendens	++
105	Cardinal Woodpecker Dendropicos fuscescens	+	129	Pied Crow Corvus albus	+
106	Brown-headed Parrot Poicephalus cryptoxanthus	++	130	Eastern Nicator Nicator gularis	+++
107	Pale Batis Batis soror	++	131	Flappet Lark Mirafra rufocinnamomea	+++
108	(Eastern) Black-headed Batis Batis minor	+	132	<b>Dodson's Bulbul</b> Pycnonotus dodsoni	+
109	<b>Grey-headed Bush-shrike</b> <i>Malaconotus blanchoti</i>	+++	133	<b>Zanzibar Sombre Greenbul</b> <i>Andropadus importunus insularis</i>	+++
110	Orange-breasted Bush-shrike Telophorus sulfureopectus	++	134	<b>Yellow-bellied Greenbul</b> Chlorocichla flaviventris	+++

135	<b>Northern Brownbul</b> Phyllastrephus strepitans	+++	159	Spotted Flycatcher Muscicapa striata	++
136	Barn Swallow Hirundo rustica	+++	160	White-browed Robin-chat Cossypha heuglini	++
137	Lesser Striped Swallow Hirundo abyssinica	+	161	Red-capped Robin-chat Cossypha natalensis	++
138	Mosque Swallow Hirundo senegalensis	+	162	<b>Collared Sunbird</b> Hedydipna collaris	+++
139	Northern Crombec Sylvietta brachyura	+	163	Olive Sunbird Cyanomitra olivacea	++
140	<b>Lesser Swamp-warbler</b> Acrocephalus gracilirostris	+	164	<b>Grey Sunbird</b> <i>Cyanomitra veroxii</i>	++
141	Sedge Warbler Acrocephalus schoenobaenus	+	165	Amethyst Sunbird Chalcomitra amethystina	+++
142	Rattling Cisticola Cisticola chiniana	+	166	House Sparrow Passer domesticus	+
143	Short-winged Cisticola Cisticola brachypterus	++	167	Parrot-billed Sparrow Passer gongonensis	+
144	<b>Tawny-flanked Prinia</b> <i>Prinia subflava</i>	+++	168	<b>Yellow-spotted Petronia</b> Petronia pyrgita	++
145	Black-headed Apalis Apalis melanocephala	++	169	Red-billed Buffalo-weaver Bubalornis niger	++
146	<b>Grey-backed Camaroptera</b> <i>Camaroptera brevicaudata</i>	+++	170	White-headed Buffalo-weaver Dinemellia dinemelli	+
147	Chatterer Rufous Turdoides rubiginosa	++	171	<b>Grey-headed Social-weaver</b> <i>Pseudonigrita arnaudi</i>	+
148	Scaly Babbler Turdoides squamulata	++	172	Thick-billed Weaver Amblyospiza albifrons	++
149	Wattled Starling Creatophora cinerea	++	173	Yellow Weaver Ploceus subaureus	+
150	Black-bellied Starling Lamprotornis corruscus	+++	174	Golden Palm Weaver Ploceus bojeri	+
151	Greater Blue-eared Starling Lamprotornis chalybaeus	+++	175	Lesser Masked-weaver Ploceus intermedius	+
152	Violet-backed Starling Cinnyricinclus leucogaster	++	176	Village Weaver Ploceus cucullatus	+++
153	Magpie Starling Speculipastor bicolor	+	177	Clarke's Weaver Ploceus golandi	+
154	<b>Red-billed Oxpecker</b> <i>Buphagus erythrorhynchus</i>	++	178	Chestnut Weaver Ploceus rubiginosus	+
155	Red-tailed Ant-thrush Neocossyphus rufus	+	179	Red-headed Weaver Anaplectes rubriceps	+
156	Bare-eyed Thrush Turdus tephronotus	++	180	Red-headed Quelea Quelea erythrops	+
157	Bearded Scrub-robin Cercotrichas quadrivirgata	+++	181	Red-billed Quelea Quelea quelea	++
158	Pale Flycatcher Bradornis pallidus	+++	182	Fan-tailed Widowbird Euplectes axillaris	+

183	Green-winged Pytilia Pytilia melba	+	192	African Pied Wagtail Motacilla aguimp	++
184	<b>Cut-throat Finch</b> <i>Amadina fasciata</i>	+	193	Golden Pipit Tmetothylacus tenellus	+
185	Red-billed Firefinch Lagonosticta senegala	+	194	Yellow-throated Longclaw Macronyx croceus	+
186	Red-cheeked Cordonbleu Uraeginthus bengalus	+++	195	Pangani Longclaw Macronyx aurantiigula	+
187	Common Waxbill Estrilda astrild	++	196	African Pipit Anthus cinnamomeus	+
188	Bronze Mannikin Spermestes cucullatus	++	197	Sokoke Pipit Anthus sokokensis	++
189	Red-backed Mannikin Spermestes nigriceps	+	198	<b>Malindi Pipit</b> Anthus melindae	+
190	Pin-tailed Whydah Vidua macroura	++	199	Yellow-fronted Canary Crithagra mozambicus	++
191	Long-tailed Paradise-whydah Vidua paradisaea	+			



### LIST OF MAMMALS

African Civet Civettictis civetta	Harvey's Duiker Cephalophus harveyi	<b>Yellow Baboon</b> Papio cynocephalus
Bushbuck Tragelaphus scriptus	Honey Badger Mellivora capensis	Red Duiker Cephalophus natalensis
BushPig Potamochoerus larvatus	Large-spotted Genet Genetta maculata	Spotted Hyena Crocuta crocuta
Caracal Caracal caracal	<b>Suni</b> Neotragus moschatus	African Savanna Hare  Lepus victoriae
Crested Porcupine Hystrix cristata	<b>Sykes' Monkey</b> Cercopithecus albogularis	Common Dwarf Mongoose Helogale parvula
Four-toed Elephant-Shrew Petrodromus tetradactylus	Unidentified squirrel	Leopard Panthera pardus
Gambian Pouched Rat Cricetomys gambianus	<b>Vervet Monkey</b> Chlorocebus pygerythrus	<b>Serval</b> <i>Leptailurus serval</i>
Coldon rumped Flonbant Chrow	Mhite teiled Managees	

Golden-rumped Elephant-Shrew
Rhynchocyon chrysopygus

(EN)

White-tailed Mongoose *Ichneumia albicauda* 



001	Coeliades anchises anchises
002	Deudorix antalus
003	Euchrysops osiris
004	Hypolycaena philippus philippus
005	Iolaus pallene
006	Iolaus (Stugeta) bowkeri mombasae
007	Lampides boeticus
800	Leptomyrina hirundo
009	Leptotes sp.
010	Pentila tropicalis mombasae
011	Acraea pseudolycia astrigera
012	Charaxes brutus alcyune
013	Charaxes jahlusa kenyensis
014	Charaxes varanes vologeses
015	Danaus chryssipus dorippus
016	Byblia ilithyia
017	Euphaedra neophron littoralis
018	Hananumida deaedalus
019	Hypolimnas misippus
020	Hypolycaena pachalica
021	Junonia hierta cebrene
022	Junonia natalica natalica
023	Junonia oenone oenone
024	Precis antilope

025	Melanitis leda leda
026	Bicyclus safitza safitza
027	Physcaeneura leda
028	Ypthima condamini condamini
029	Acraea anemosa
030	Acraea braesia
031	Acraea chilo chilo
032	Acraea neobule neobule
033	Byblia anvatara acheloia
034	Eurytela dryope angulata
035	Phalanta phalantha aethiopica
036	Telchinia serena
037	Ypthima sp.
038	Graphium antheus
039	Graphium colonna
040	Graphium philonoe philonoe
041	Papilio constantinus constantinus
042	Papilio dardanus tibullus
043	Papilio demodocus demodocus
044	Papilio nireus lyaeus
045	Belenois aurota
046	Belenois creona severina
047	Belenois gidica abyssinica
048	Belenois thysa thysa

049	Catopsilia florella
050	Colotis amatus amatus
051	Colotis antecippe zera
052	Colotis auxo incretus
053	Colotis calais calais
054	Colotis daira jacksoni
055	Colotis danae eupompe
056	Colotis eris eris
057	Colotis euippe omphale
058	Colotis evagore antigone
059	Colotis hetaera hetaera
060	Colotis ione
061	Colotis protomedia
062	Dixeia charina liliana
063	Dixeia sp.
064	Eronia dilatata
065	Eurema brigitta brigitta
066	Eurema senegalensis
067	Eurema sp.
068	Nepheronia buqueti buqueti
069	Plnacopteryx eriphia melenarge
070	Teracolus eris eris
071	Epiphora lugardi



001	Acacia polyacantha
002	Adansonia digitata
003	Adenium obesum
004	Afzelia quanzensis
005	Aloe volkensii
006	Bombax rhodognaphalon
007	Bourreria petiolaris
800	Brachylaena huillensis
009	Brachystegia spiciformis
010	Canthium mombazense
011	Carissa tetramera
012	Combretum collinum
013	Combretum illairii
014	Combretum schumannii
015	Commiphora africana
016	Commiphora boiviniana
017	Croton pseudopulchellus
018	Cynometra lukei
019	Cynometra webberi
020	Dichrostachys cinerea
021	Diospyros consolatae
022	Dobera glabra
023	Drypetes natalensis
024	Encephalartos hildebrandtii

025	Erythrina webberi	049	Manilkara sulcata
026	Euclea natalensis	050	Markhamia zanzibarica
027	Euphorbia candelabrum	051	Monodora grandidieri
028	Euphorbia grandicornis	052	Ochna mossambicensis
029	Euphorbia tirucalli	053	Ochna thomasiana
030	Flueggea virosa	054	Ozoroa obovata
031	Garcinia livingstonei	055	Pavetta crebrifolia
032	Gardenia volkensii	056	Premna chrysoclada
033	Gloriosa superba	057	Psychotria punctata
034	Grandidiera boivinii	058	Salvadora persica
035	Grewia sp.	059	Securidaca longipedunculata
036	Grewia densa	060	Sterculia africana
037	Grewia glandulosa	061	Strychnos madagascariensis
038	Grewia plagiophylla	062	Terminalia spinosa
039	Haplocoelum inoploeum	063	Thespesia danis
040	Helmsia collina	064	Uvaria acuminata
041	Hieracium salaudum	065	Uvaria lucida
042	Hoslundia opposita	066	Vitex ferruginea
043	Julbernardia magnistipulata	067	Volkameria inermis
044	Laccodiscus ferrugineus	068	Warbugia stuhlmannii 🔍
045	Lannea schweinfurthii	069	Ximenia americana
046	Lecaniodiscus fraxinifolius	070	Zanthoxylum chalybeum
047	Lonchocarpus bussei	071	Zanthoxylum holtzianum
048	Manilkara sansibarensis	072	Ziziphus pubescens

