



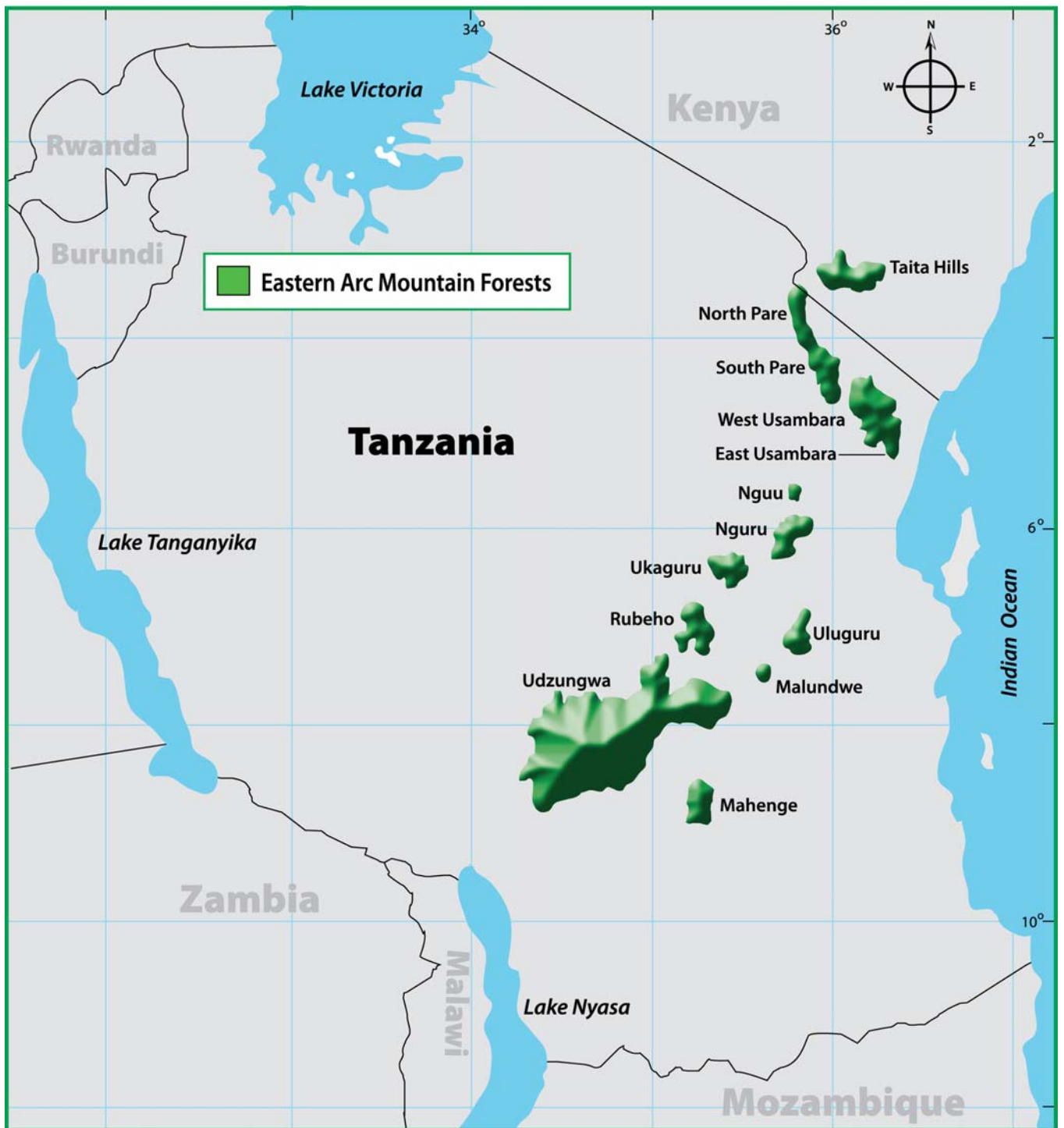
**EASTERN ARC MOUNTAINS CONSERVATION ENDOWMENT FUND
(EAMCEF)
MFUKO WA HIFADHI YA MILIMA YA TAO LA MASHARIKI**

**FOREST RESERVES, AMPHIBIANS AND BIRDS
OF THE EASTERN ARC MOUNTAINS**

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October, 2008

LOCATION OF THE EASTERN ARC MOUNTAINS



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LIST OF ABBREVIATIONS AND ACRONYMS

AMNH	–	American Museum of Natural History
BNHM	–	Natural History Museum, London
CEPF	–	Critical Ecosystem Partnership Fund
CMEAMF	–	Conservation and Management of the Eastern Arc Mountains Forests Project
E	–	East
EAMCEF	–	Eastern Arc Mountains Conservation Endowment Fund
FBD	–	Forestry and Beekeeping Division
FR	–	Forest Reserve
IUCN	–	International Union for Conservation of Nature
L.A	–	Local Authority (Forest Reserve)
N	–	North
NMK	–	National Museum of Kenya
S	–	South
T.T	–	Central Government (Forest Reserve)
TANAPA	–	Tanzania National Parks
TFCG	–	Tanzania Forest Conservation Group
UNDP	–	United Nations Development Programme
VFR	–	Village Forest Reserve
W	–	West
WCST	–	Wildlife Conservation Society of Tanzania

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View of Mufindi Scarp Forest Reserve

PREFACE

The Eastern Arc Mountains Conservation Endowment Fund (EAMCEF) is a Trust Fund that was established as a mechanism to provide for a long term, reliable and sustainable funding support to biodiversity conservation initiatives in the Eastern Arc Mountains of Tanzania. The Eastern Arc Mountains forms a significant part of one of the 34 biodiversity hotspots in the World that is characterized by high concentrations of flora and fauna endemic species currently under great threat.

Whereas effective conservation of the Eastern Arc Mountains can only be assured through proper planning and informed decision making for the conservation initiatives, the two processes can only be possible if sufficient and reliable data is available and accessible to the relevant stakeholders. Among other objectives, EAMCEF was thus established so that it can also contribute in the efforts to collect and disseminate important information on the Eastern Arc Mountains and their global conservation value.

Through a collaborative effort between EAMCEF and the UNDP supported Conservation and Management of the Eastern Arc Mountains Forests (CMEAMF) Project, the University of Dar -Es – Salaam (UDSM) through its Department of Zoology and Wildlife Conservation was commissioned to carry out a consultancy assignment to search, assemble and package some of the relevant information that is currently available at various sources on Forest Reserves, Amphibian and Bird species of the Eastern Arc Mountains.

The production of this report on Forest Reserves, Amphibians and Birds of the Eastern Arc Mountains is a result of the consultancy work that was given to the UDSM. Through the dedication and full commitment of Prof. Kim M. Howell, Mr. Wilirk Ngalason and Mr. C. Werema of the Department of Zoology and Wildlife Conservation, the first draft of this report was ready by December 2006. We sincerely thank the team for their unmatched efforts.

Lastly, I wish to encourage each and all stakeholders of the Eastern Arc Mountains to make use of the information contained in this report and it is my hope that you will all find the information useful.

Francis B.N. Sabuni
EXECUTIVE DIRECTOR
Morogoro, Tanzania

October, 2008

1. INTRODUCTION

1.1 Background

Critical Ecosystem Partnership Fund (CEPF) has funded the development of a database system for the Eastern Arc and Coastal Forests hotspot. This work was contracted to Birdlife International in Kenya (working through WCST in Tanzania) and the National Biodiversity Database at the University of Dar es Salaam. However, the CEPF funded database work focuses almost entirely on the 161 sites identified in the ecosystem profile document and those species of plants and animals that are listed in the current IUCN Red list of Threatened Species. This approach will leave out many of the 150 or more forests in the Eastern Arc Mountains, will amalgamate existing sites into unnatural management blocks, and will also omit all endemic and near-endemic species that are not listed in the “red list”, even if they are known from only a few sites.

As a consequence of this, Conservation and Management of the Eastern Arc Mountains Forests (CMEAMF) Project and The Eastern Arc Mountains Conservation Endowment Fund (EAMCEF) have worked together, in collaboration with the National Biodiversity Database at the University of Dar es Salaam, to develop a simple set of Excel spreadsheets that cover the key (endemic, near-endemic and threatened) species of amphibians and birds found in each of the c.150 forest patches of the Eastern Arc Mountains. The data collected will be available to both the FBD databases and the CEPF outcomes database. CMEAMF and EAMCEF have facilitated, through working in collaboration with the National Biodiversity Database at the University of Dar es Salaam, the development of a set of Excel spreadsheets on the species and forests of the Eastern Arc Mountains.

1.2 Problem Statement

The Eastern Arc Mountains contain more than 150 Forest Reserves under various categories of management (central government, local authority and village government). The biodiversity values of some of these reserves have been investigated by researchers, but these data are not compiled in a single place and cannot be used as an input to the FBD database, or to prioritise those Forest Reserves that should be upgraded to Nature Reserves, or included within a World Heritage Site. In order to deliver these parts of the work, CMEAMF and EAMCEF requires a compilation of the available information on the biological values of the different Forest Reserves

1.3 Objectives

1. To prepare a full list of all the known sites in the Eastern Arc Mountains, giving details of their size, location, threats and reservation status when they are already within some form of protected area
2. To prepare a full list of the endemic, near endemic and otherwise threatened species of amphibians and birds in the Eastern Arc Mountains.
3. To develop an excel sheet for each major vertebrate taxon group (amphibians and birds) that captures the distribution of the various important species in these groups across the full list of Eastern Arc forest sites.
4. A list of the references consulted which have been used to develop the species and sites database should as well be provided.

2. METHODS

To implement the objectives of the proposed work, a database was designed specifically for receiving information found in databases and from literature. This database consists of several tables (a table for a list of endemic, near endemic and threatened amphibian and bird species, a table for a list of forest reserves in the Eastern Arc Mountains, a table for records of amphibians and a table for records of birds).

A list of endemic, near endemic and threatened species of amphibians and birds was prepared from various sources. Also, a list of Eastern Arc Mountain Forest Reserves was prepared from various published and unpublished reports. The biodiversity database of the University of Dar es Salaam was queried for both endemic, near endemic and threatened species of amphibians and birds; and sites within Eastern Arc Mountains where they are found. In addition, various literatures (published and unpublished) were reviewed for the same. Museums outside Tanzania were also contacted and these include Natural History Museum, London (BNHM), American Museum of Natural History (AMNH) and National Museum of Kenya (NMK). All the information found both in the database and in literature was entered in the database.

Two excel spread sheets were prepared, one for key amphibian species and another for birds. The database was then queried and the results were plotted on the excel sheets. Different symbols (letters) were used on these excel sheets to denote source of information. E.g. D was used to denote that the source of information was database i.e. a museum specimen housed at the University of Dar es Salaam, Department of Zoology and Wildlife Conservation or other museums, L, meaning the source of information was literature.

3. RESULTS

3.1 Forest Reserves

A total of 209 forest reserves were found to occur in the Eastern Arc Mountains. Out of these, 116 forest reserves are owned and managed by the Central Government, 39 forest reserves are owned and managed by local governments (Districts or regions); six are owned and managed by village governments, six forests are owned by TANAPA, 26 are proposed forest reserves, nine are privately owned reserves (estates/farms) and three are owned by clans (Table1)

Table 1: List of Forests in the Eastern Arc Mountains with Notes on Location, Source of Information and Threats.

No.	Block	Region	Longitude	Latitude	Reference	Name of Forest	Ownership	Area (ha)	Threat
1	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002; Stanley <i>et al.</i> , 2000	Gonja	L. A	71.0	Stanley <i>et al.</i> , 2000 note threats from some evidence of logging, and that it is one of the last lowland forests in this region of Tanzania and needs protection against further habitat degradation
2	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Koko Hill	T.T	78.1	Fuelwood extraction, grazing
3	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Lambo Village	Proposed VFR	400.0	
4	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Mkonga	Proposed FR	520.0	
5	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Pangani	Proposed FR	11.0	
6	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Kamwenda	Proposed FR	583.0	Fire, building poles extraction
7	Udzungwa Mts.	Morogoro	36° 20' - 36°33' E	7° 55' - 8° 8' S	Not known	Matundu	TANAPA	17644	Logging
8	Tanga	Tanga	38° 47' 18" - 38° 49' 11" E	S 04° 44' 53" - S 04° 47' 50"	Cordeiro & Githuru, 2001; Oliver <i>et al.</i> , 2002	Mgambo	L.A	1560	Cordeiro & Githuru (2001) note fires, grazing, cultivation; Oliver <i>et al.</i> , 2002 list fire, grazing
9	Uluguru Mts	Morogoro	37° 45' E	06° 59' S	Doggart <i>et al.</i> 2001	Milawilila	L.A	12.8	Timber extraction
10	Uluguru Mts	Morogoro	37° 44' E	06° 58' S	Doggart <i>et al.</i> , 2001	Mangala	L. A		Cultivation
11	Uluguru Mts	Morogoro	37° 35' E	7° 06' S	Lovett and Pócs, 1993, Lovett <i>et al.</i> , 1995	Vigoza	T.T	9.3	Cultivation
12	Uluguru Mts; foothills	Morogoro	37° 47' - 37° 49' E	06° 59' - 07° 02' S	Doggart <i>et al.</i> , 2001	Kimboza	T.T	385.9	Logging; extraction of specific species for wooden utensils, possibly mining Werema, C. (in prep)
13	Uluguru Mts; foothills	Morogoro	37° 49' - 37° 54' E	6° 53' - 7° 02' S	Doggart <i>et al.</i> , 2001	Ruvu	T.T	3093.5	Mining, fire, farming
14	Uluguru Mts	Morogoro	37° 34' E	7° 06' S	Lovett and Pócs, 1993, Lovett <i>et al.</i> , 1995	Nyandiduma	T.T	47.8	Grazing, exotic tree species

15	East Usambara	Tanga	38° 40' - 38° 42' E	4° 53' - 4° 54' S	Stuart, 1983; Seddon et al., 1996 is only recent survey	Kilanga	T.T	431.0	Logging
16	East Usambara	Tanga	38° 40' S	4° 55' S	Forest Division, 1988	Nkombola	T.T	191.8	Logging
17	West Usambara					Lukoka Hill	L.A	170.4	
18	Uluguru Mts; foothills	Morogoro	37° 47' - 37° 51' E	07° 08' - 07° 13' S	Doggart <i>et al.</i> , 2001	Chamanyani	T.T	796.0	Timber, firewood and poles extraction, fire,
19	Uluguru Mts; foothills	Morogoro	37° 47' - 37° 51' E	07° 08' - 07° 13' S	Doggart <i>et al.</i> , 2001	Mvuha	T.T	851.6	Timber, firewood and poles extraction, fire,
20	Ukaguru Mts outlier	Morogoro	37°09' - 37° 11' E	5° 58' - 6° 01' S	Lovett and Pócs, 1993	Talagwe (Taragwe)	T.T	1085.4	Grazing, poles extraction
21	Rubeho outlier	Morogoro	36° 55' - 36° 58' E	06° 48' - 06° 51' S	Not known	Kihiliri	T.T	208.0	Fuelwood, poles and timber extraction, fire
22	East Usambara	Tanga	38°39'39.4'' - 38°41'5.6'' E	S 04°43'30.3'' - 4°49'17.3''	Staddon <i>et al.</i> , 2002b	Bombo East II	T.T	404.0	Fire, Tree cutting (building poles)
23	E. Usambara	Tanga	38°43' 39.7'' - 38°42'10''E	04° 48'47.5'' - 4°50'46.5''S	Staddon <i>et al.</i> , 2002 a	Bombo East I	T.T	448.0	Fire, Tree cutting
24	E. Usambara	Tanga	38° 45' E	5° 02' S	Cunneyworth, 1996b	Kwamarimba (Marimba)	T.T	887.4	Pole and timber extraction
25	E. Usambara outlier	Tanga	38° 43' - 38° 45' E	5° 17' - 5° 19' S	Iversen, 1991	Togwe	T.T	1202.0	Fire, building poles and timber extraction
26	Uluguru	Morogoro	37° 36' E	06° 55' S	Doggart <i>et al.</i> , 2001	Konga	L.A	5.3	
27	Udzungwa	Morogoro	35° 38' - 35° 42' E	9° 01' - 9° 05' S	Not known	Masagati	T.T	6475.0	Firewood, poles and timber extraction
28	Mahenge	Morogoro	36° 27' - 36° 30'	8° 33' - 8° 35' S	Lovett and Pócs, 1993	Nambiga	T.T	1390.1	Timber extraction
29	North Pare	Kilimanjaro	37° 45' E	03° 45' S	Baker and Baker, 2002	Ugweno Division	Clan	211.0	
30	North Pare	Kilimanjaro	37° 45' E	03° 45' S	Baker and Baker, 2002	Usangi Division	Clan	108.0	
31	North Pare	Kilimanjaro	37° 45' E	03° 45' S	Baker and Baker, 2002	Lembeni Division	Clan	52.0	
32	Udzungwa	Iringa	35° 46' 40'' - 35° 48' 00'' E	08° 16' 07'' - 08° 17' 15'' S	Lovett and Pócs, 1993	Idewa	L.A	291.0	Fuelwood and poles extraction
33	Udzungwa	Iringa	35° 27' 08'' - 3° 28' 33'' E	8° 29' 15'' - 8° 29' 45'' S	Lovett and Pócs, 1993	Kidete	L.A	105.0	Fuelwood and poles extraction
34	Udzungwa	Iringa	35° 25' 15 - 35° 31' 30''E	8° 32' 30'' - 8° 34' 15'' S	Lovett and Pócs, 1993	Lugoda Lutali	L.A	108.0	Fuelwood and poles extraction
35	Udzungwa	Iringa	35°19' - 35°20'E	8° 18' 15'' - 8° 19' 00'' S	Lovett and Pócs, 1993	Myangala	L.A	35.0	Fuelwood and poles extraction

36	Udzungwa	Iringa				Ndynduli	L.A	5.0	
37	Udzungwa	Iringa				Duma	L.A	11.0	
38	Udzungwa	Iringa				Kidegemsitu	L.A	218.0	
39	Udzungwa	Iringa				Lufuna	L.A	35.0	
40	Udzungwa	Iringa				Ipafu	L.A	88.0	
41	Udzungwa	Iringa				Igoda	L.A	33.0	
42	Udzungwa	Iringa				Mkonge	L.A	97.0	
43	Udzungwa	Iringa				Kitwile	L.A	69.0	
44	E. Usambara	Tanga	38° 47' 30''E	04° 47' 30''S	Doody <i>et al.</i> , 2001e	Mpanga	L.A	116.0	Pole cutting, cultivation
45	Udzungwa	Iringa				Luhunga	L.A	252.0	
46	Udzungwa	Iringa				Madisi	L.A	84.0	
47	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Kiranga-Hengae	L.A.	321.0	
48	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Chongweni	L.A.	92.3	
49	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Kankoma	L.A.	74.0	
50	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Kisiwani	L.A.	50.0	
51	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Vumari	L.A.	1829.0	
52	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Kwizu	L.A.	3070.0	
53	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Maganda	L.A.	28.0	
54	W. Usambara	Tanga				Bombo Makole	L.A.	263.0	
55	W. Usambara	Tanga				Baghoi	L.A.	334.7	
56	W. Usambara	Tanga				Kwebagu/Heban gwe	L.A.	33.6	
57	W. Usambara	Tanga				Kwenyashu	L.A.	16.2	
58	W. Usambara	Tanga				Shambalai	L.A.	21.0	
59	W. Usambara	Tanga				Mtumbi	L.A.	304.0	
60	W. Usambara	Tanga				Kitara ridge	L.A.	388.0	
61	Udzungwa	Morogoro				Ihanga	L.A.	3467.0	
62	Uluguru	Morogoro				Mkangala	L.A.	7.0	
63	Uluguru	Morogoro	37° 44' E	06° 59' S	Doggart <i>et al.</i> , 2001	Ngambaula	L.A.	2.8	Timber extraction, cultivation
64	Udzungwa	Morogoro and Iringa	36° 45' E	07° 50' S	Baker and Baker, 2003	Udzungwa National Park	TANAPA	190000.0	Logging, fuelwood collection,
65	Malundwe	Morogoro	37° 18' E	07° 24' S	Stanley <i>et al.</i> , 2005	Mikumi National Park	TANAPA	330000.0	

66	E. Usambara	Tanga	38° 30' 34'' - 38° 40' 06'' E	5° 14' 10'' - 5° 04' 30'' S	Doody <i>et al.</i> , 2001a; Kitegile, 2006, Ndunguru, 2006	Amani Nature Reserve	T.T	8380.0	Logging, mining, fuelwood and building poles extraction, Exotic tree species
67	Lowland	Morogoro	36° 55' E	7° 52' S	Dinesen <i>et al.</i> , 2001	Magombera	No status	1578.0	Logging, fire, cultivation
68	Udzungwa					Malenda Farm	Private	400.0	
69	E. Usambara	Tanga	38° 45' E	5° 07' S	Cunneyworth and Stubblefield, 1996a	Magrotto (including Magoroto FR, Magrotto estate and Magrotto Hill)	Private	591.0	Pole and timber cutting
70	W. Usambara	Tanga			Stuart, 1983; Goodman et al 1995	Ambangulu	Private	772.0	Sawmill is present, also replacement of natural species with quinine; see update by Goodman <i>et al.</i> 1995
71	W. Usambara	Tanga			Stuart, 1983	Dindira	Private	599.0	Very small, little chance of survival; one of the lowest alt. forests in the WU. (Stuart, 1983). No specific threat mentioned, presumed logging.
72	W. Usambara	Tanga	38° 37' - 38° 39' E	4° 51' - 4° 55' S	Stuart, 1983	Lutindi	Private	2150.0	Logging
73	W. Usambara	Tanga	38° 30' E	4° 50' S	Mrema and Nummelin, 1998	Mazumbai	Private	500.0	
74	Udzungwa	Iringa				Brooke Bond	Private	12000.0	
75	Udzungwa	Iringa				Mufindi Tea	Private	1000.0	
76	Udzungwa	Iringa				Kyfulilo Farm	Private	50.0	
77	Rubeho	Dodoma	36° 29' E	6° 17' S,		Kiboriani	Proposed	54000.0	
78	Udzunwga	Iringa	37° 07' - 37° 10' E	07° 35' - 07° 43' S	Lovett and Pócs, 1993	Kitonga	Proposed	629.0	Building pole and firewood extraction
79	Udzunwga					Kimala	Proposed	1000.0	
80	North Pare	Kilimanjaro	37° 37' - 37° 40'	3° 48' - 3° 50' S	Wardell, 1991	Kiverenge	Proposed	2155.0	Grazing, poles and fuelwood extraction
81	North Pare	Kilimanjaro	37° 45' E	03° 45' S	Wardell, 1991	Kamwala I	Proposed	199.0	Grazing, building poles extraction
82	North Pare	Kilimanjaro	37° 45' E	03° 45' S	Wardell, 1991	Kamwala II	Proposed	293.0	Grazing, building poles extraction
83	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Kwamwenda	Proposed	583.0	

84	South Pare	Kilimanjaro	37° 50' E	04° 20' S	Baker and Baker, 2002	Mwala	Proposed	1373.0	Building poles extraction
85	South Pare	Kilimanjaro				Dido	Proposed VFR		
86	South Pare	Kilimanjaro				Mambugi	Proposed VFR		
87	South Pare	Kilimanjaro				Ishereto	Proposed VFR		
88	W. Usambara	Tanga				Mzongoti	Proposed VFR	154.0	
89	W. Usambara	Tanga				Chambogo	Proposed VFR	605.0	
90	W. Usambara	Tanga				Kwamongo	Proposed VFR	142.0	
91	W. Usambara	Tanga				Kifulio	Proposed VFR	130.0	
92	W. Usambara	Tanga				Dindira	Proposed VFR	80.0	
93	W. Usambara	Tanga				Shukilai	Proposed VFR	100.0	
94	W. Usambara	Tanga				Sekigoto	Proposed VFR	100.0	
95	W. Usambara	Tanga				Yumbu	Proposed VFR	350.0	
96	W. Usambara	Tanga				Mazashai	Proposed VFR	350.0	
97	W. Usambara	Tanga				Tanda	Proposed VFR	100.0	
98	W. Usambara	Tanga				Deai	Proposed VFR	100.0	
99	Rubeho	Morogoro	36° 35' E	06° 49' S	Bowie and Fjeldså, 2005	Mafwomero (Mafwemiro)	T.T	3237.0	
100	Rubeho	Dodoma	36° 25' E	07° 10' S	Lovett and Congdon, 1989	Mangalisa	T.T	4988.0	Grazing and moist forests are little disturbed.
101	Rubeho	Dodoma				Wotta	T.T	1024.0	Logging and fire
102	Ukaguru	Morogoro				Mlali	T.T	6216.0	
103	Udzungwa	Iringa	36° 08' 15" - 36°12'25"E	07° 22' 15" - 07° 33' 15"S	Lovett and Pócs, 1993	Image	T.T	8919.0	Timber, poles and firewood extraction
104	Udzungwa	Iringa	36° 02' 50" - 36° 04' 30" E	8° 06' 00", 8° 08' 35" S	Lovett and Pócs, 1993	Kiranzi Kitungulu	T.T	1092.0	Poles and fuelwood extraction, logging
105	Udzungwa	Iringa	35° 53' 52" - 36° 03' 40" E	07° 44' 25" - 07° 53' 00"S	Lovett and Pócs, 1993	Kisinga-Rugaro	T.T	14160.0	Fire, tree cutting

106	Udzungwa	Iringa	35°54'07" - 35°56'52" E	08° 03' 15" - 08° 06' 46" S	Lovett and Pócs, 1993	New Dabaga	T.T	3728.0	Logging, poles and firewood extraction, fire
107	Udzungwa	Iringa	35° 54' 04" - 35° 56' 48 " E	08° 00' 07" - 08° 03' 50" S	Lovett and Pócs, 1993	Ulangambi	T.T	2057.0	Logging
108	Udzungwa	Iringa, Morogoro	36° 05' 45" - 36° 58' 30" E	07° 38' 30" - 08° 17' S	Lovett and Pócs, 1993	West Kilombero Scarp	T.T	105000.0	No threat for now (is remote)
109	Udzungwa	Iringa and Morogoro	35° 51' - 36° 02' E	8° 14' - 8° 32' S	Lovett and Pócs, 1993	Udzungwa scarp	T.T	23000.0	Logging and Poles extraction
110	Udzunwga	Iringa	36° 01' 30" - 36° 02' 45" E	8° 9' 15" - 8° 10' 25" S	Lovett and Pócs, 1993; Dinesen <i>et al.</i> , 2001	Kitemele	T.T	273.0	Timber, poles and firewood extraction
111	Udzungwa	Iringa	35°11'55"E - 35°36'05"E	8° 34' 05" S - 08° 42' 40" S	Lovett and Pócs, 1993	Mufindi Scarp East	T.T	15183.0	Fuelwood and poles extraction
112	Udzungwa	Iringa	35°07'40"E - 35°10'50"E	08° 41' 15" S - 08° 43' 50" S	Lovett and Pócs, 1993	Mufindi Scarp West	T.T	1852.0	Timber extraction, fire
113	Udzungwa	Iringa	35° 11' 45" - 35° 16' 30" E	08° 37' 40" - 08° 41' 40" S	Lovett and Pócs, 1993	Kigogo	T.T	2522.0	Logging, poles, and firewood extraction
114	South Pare	Kilimanjaro	37° 45' - 37° 51' E	4° 04' - 4° 08' S	Baker and Baker, 2002	Chambogo	T.T	5466.6	Grazing, fire
115	South Pare	Kilimanjaro	37° 53' - 38° 00' E	4° 10' - 4° 25' S	Baker and Baker, 2002, Wardell, 1991, Stanley <i>et al</i> 1996	Chome	T.T	14282.0	fire, pitsawing
116	North Pare	Kilimanjaro	37° 45' E	3° 43' - 3° 46' S	Wardell, 1991; Mwihomeke <i>et al.</i> , 1998 for nearby traditionally protected forests	Kindoroko	T.T	885.0	Fire; fuelwood (Mwihomeke <i>et al.</i> , 1998)
117	North Pare	Kilimanjaro	37° 45' E	3° 43' - 3° 46' S	Wardell, 1991; Ylhaisi, 2000	Minja	T.T	520.4	Fire, building poles extraction; Ylhaisi (2000) notes 2/3 of its 520 ha were destroyed by fire in 1998
118	North Pare	Kilimanjaro	37° 33' - 37° 36' E	3° 31' - 3° 39' S	Wardell, 1991; Ylhaisi, 2000	Mramba	T.T	3355.0	Fire, grazing, fuel-wood and poles extraction.
119	W. Usambara	Tanga	38° 28' E	4° 47' S	Stuart, 1983	Baga –I	T.T	357.2	Western side cleared for timber extraction
120	Udzungwa	Morogoro	36° 32' - 36° 42' E	7° 55' - 8° 00' S	Dinesen <i>et al.</i> , 2001	Iwonde	TANAPA	6166.0	Fire, timber extraction
121	Udzungwa	Morogoro	36° 06' - 36° 22' E	8° 00' - 8° 16' S	Lovett and Pócs, 1993	Iyondo	TANAPA	27974.5	Human pressure
122	Udzungwa	Morogoro, Iringa				Uzungwa scarp (part)	T.T	20720.0	

123	Udzungwa	Morogoro	36° 39' - 36° 50' E	7° 56' - 8° 4' S	Lovett and Pócs, 1993	Nyanganje	T.T	9000.0	fire, timber extraction
124	Udzungwa (NP)	Morogoro	36° 46' - 36° 56' E	7° 40' - 7° 57' S	Dinesen <i>et al.</i> , 2001	Mwanihana	TANAPA	17 923.0	Timber, poles and firewood extraction, fire
125	Ukaguru	Morogoro	36° 57' - 36° 59' E	6° 19' - 6° 21' S	Baker and Baker, 2002	Ikwamba	T.T	899.0	Logging
126	Ukaguru	Morogoro	36° 55 min E	06° 20' S	Baker and Baker, 2002	Mamboto	T.T	137.0	Firewood and building poles extraction
127	Ukaguru outlier	Morogoro	37° 03' - 37° 04' E	6° 13' - 6° 15' S	Lovett and Pócs, 1993	Mamboya	T.T	455.0	Grazing, burning, timber extraction
128	Ukaguru	Morogoro	36° 53' - 37° 03' E	6° 21' - 6° 30 S	Evans & Anderson, 1993; Baker and Baker, 2002	Mamiwa Kisara North	T.T	6775.0	Pit sawing, encroachment along southern border, fire and building wood extraction (Evans & Anderson, 1993; Baker & Baker, 2002)
129	Ukaguru	Morogoro	36° 54' - 37° 00' E	6° 26' - 6° 35' S	Baker and Baker, 2002	Mamiwa Kisara South	T.T	6266.4	Fuelwood and timber extraction
130	Ukaguru	Morogoro	36° 55' E	06° 20' S	Baker and Baker, 2002	Uponera	T.T	375.0	Grazing, burning, fuelwood extraction
131	Rubeho	Morogoro	36° 47' - 36° 50' E	7° 12' - 7° 22' S	Lovett and Pócs, 1993	Pala Mountain	T.T	10610.3	fire
132	Rubeho	Morogoro	36° 34' - 36° 51' E	6° 58' - 7° 21' S	Lovett and Pócs, 1993	Ukwiva	T.T	54634.0	fire, timber extraction
133	Uluguru (outlier)	Morogoro	37° 52' E	6° 42' S	Hymas, 2001	Dindili	T.T	1006.9	Fuelwood extraction, fire
134	Uluguru (outlier)	Morogoro	37° 57' - 38° 01' E	6° 39' - 6° 43' S	Lovett and Pócs, 1993, Lovett <i>et al.</i> , 1995	Kitulang'halo	L. A	2238.0	fire, fuelwood extraction
135	Uluguru (outlier)	Morogoro	37° 35' E	6° 50' S	Lovett and Pócs, 1993, Lovett <i>et al.</i> , 1995	Mindu	T.T	2285.0	Burning, fuelwood extraction
136	Uluguru (outlier)	Morogoro	3° 53' - 37° 57' E	6° 51' - 6° 55' S	Doggart <i>et al.</i> , 2001	Mkungwe	T.T	1966.8	Timber extraction, fire, hunting
137	Uluguru	Morogoro	37° 37' - 37° 45' E	6° 51' - 7° 01' S	Doggart <i>et al.</i> , 2001	Uluguru north	T.T	8356.7	Logging, fire, fuelwood and poles extraction
138	Uluguru	Morogoro	37° 36' - 37° 45' E	7° 01' - 7° 12' S	Doggart <i>et al.</i> , 2001; Mkonyi, 2005; Ngalason, 2005	Uluguru south	T.T	17292.7	Logging, fire, fuelwood and poles extraction, cultivation
139	Uluguru	Morogoro	37° 45' E	07° 10' S	Doggart <i>et al.</i> , 2001	Kasanga	T.T	70.0	Tree cutting, cultivation
140	Uluguru	Morogoro				Bunduki IV	T.T	6.1	

141	Uluguru	Morogoro				Bunduki VI	T.T	3.7	
142	Uluguru	Morogoro				Bunduki VI	T.T	2.6	
143	Uluguru	Morogoro	37° 38' E	7° 01' S	Doggart <i>et al.</i> , 2001	Bunduki I-III	T.T	111.0	Firewood, poles and timber extraction, exotic trees
144	Uluguru	Morogoro	37° 31' E	07° 09' – 07° 11' S	Doggart <i>et al.</i> , 2001; Mkonyi, 2005	Shikurufumi	T.T	260.0	Firewood and poles extraction, fire, forest clearing
145	Nguru	Morogoro	37° 40' - 37° 45' E	5° 53' - 6° 03' S	Lovett and Pócs, 1993; Kielland, 1990; Romdal, 2001 Collins <i>et al.</i> , 2006	Kanga	T.T	6664.2	Wood and timber extraction; the past (Collins <i>et al.</i> , 2006) Romdal, 2001 cites Kielland, 1990, states that it still retains intact forest below 500m.
146	Nguru: foothills	Morogoro	37° 28' - 37° 34' E	6° 12' - 6° 16' S	Lovett and Pócs, 1993, Bracebridge, 2006, Romdal, 2001 surveyed birds;	Mkindu (Mkindo)	T.T	5244.0	fire, fuelwood, poles and timber extraction
147	Nguru	Morogoro	37° 26' - 37° 37' E	6° 01' - 6° 13' S	Collins <i>et al.</i> , 2006	Nguru South	T.T	18792.6	Logging, pitsawing; seems relatively intact, Collins <i>et al.</i> , 2006
148	Nguru: foothills	Morogoro	37° 39' E	6° 02' S	Lovett and Pócs, 1993	Magotwe	T.T	709.0	Poles extraction, cultivation
149	Mahenge outlier	Morogoro	36° 26' E	9° 02' S	Lovett and Pócs, 1993	Ligamba	T.T	15.8	Remotely located, no threat
150	Mahenge	Morogoro	36° 42' - 36° 44'	8° 37' - 8° 38' S	Lovett and Pócs, 1993	Mahenge scarp	T.T	387.0	Logging, cultivation
151	Mahenge	Morogoro	36° 43' - 36° 44' E	36° 42' - 36° 44'	Lovett and Pócs, 1993	Mselezi	T.T	2245.0	Mining, logging, burning
152	Mahenge	Morogoro	36° 41' E	8° 51' S	Lovett and Pócs, 1993	Muhulu	T.T	609.9	Fire
153	Mahenge	Morogoro	36° 37' E	8° 39' S	Lovett and Pócs, 1993	Myoe	T.T	93.1	Remotely located
154	Mahenge	Morogoro	36° 37' - 36° 41' E	8° 54' - 8° 57' S	Lovett and Pócs, 1993	Sali	T.T	983.0	Pitsawing, fire, cultivation
155	Udzunwga	Iringa	36° 00' 50" - 36° 01' 15" E	8° 08' 10", 8° 08' 50" S	Lovett and Pócs, 1993	Kawemba	T.T	69.0	Building poles and fuelwood extraction
156	Udzungwa	Iringa	35° 17' 50" - 35° 18' 05" E	8° 34' 00" - 8° 35' 25" S	Lovett and Pócs, 1993	Kibao	T.T	440.0	Fuelwood and building poles extraction
157	Udzungwa					Njerera (Luhega)	T.T	2833.0	

158	Udzungwa	Iringa	35°42' 20" - 35° 44' 50"E	08° 16' 45" - 8° 18' 38" S	Lovett and Pócs, 1993	Ihangana	T.T	2982.0	Fuelwood and poles extraction
159	Nguu	Tanga	37° 33' - 37° 36' E	5° 33' - 5° 40' S	Lovett and Pócs, 1993	Kilindi	T.T	4949.0	Timber extraction
160	Nguu outlier	Tanga	37° 33' E	5° 26' S	Lovett and Pócs, 1993	Kwediboma	T.T	285.0	fire, timber extraction
161	Nguu	Tanga	37° 28' E	5° 47' S	Lovett and Pócs, 1993	Mkuli Extn.	T.T	2931.2	Fire, timber extraction
162	Nguu	Tanga	37° 33' E	5° 27' - 5° 29' S	Lovett and Pócs, 1993	Mkongo	T.T	984.6	fire, building poles extraction
163	Nguu	Tanga	37° 29' E	5° 45' S	Lovett and Pócs, 1993	Mbwegere	T.T	740.0	fire
164	Nguu	Tanga	37° 36' - 37° 32' E	5° 27' - 5° 38' S	Lovett and Pócs, 1993;	Nguru North	T.T	14041.5	Burning, timber extraction, grazing;
165	Nguu	Tanga	37° 32' - 37° 27' E	5° 42' - 5° 37' S	Lovett and Pócs, 1993	Derema	T.T	3928.0	Logging, fire
166	Nguu	Tanga	37° 32' - 37° 28' E	5° 40' - 5° 44' S	Lovett and Pócs, 1993	Pumila (Pumula)	T.T	1062.0	Building poles and timber extraction, fire
167	Nguu outlier	Tanga	37° 37' E	5° 47' S	Lovett and Pócs, 1993	Rudewa	T.T	555.6	Logging
168	Nguu outlier?	Tanga				Jungu	T.T	261.0	
169	W. Usambara	Tanga			Stuart (1983) notes this as same as Baga I	Mzinga (also known as Baga I according to Stuart 1983)	T.T	355.5	Clearance continuing and there is a danger of Mzinga FR being isolated from the rest.
170	W. Usambara	Tanga			Stuart 1983	Baga –II	T.T	1459.2	Much of western and southern sides have been cut for timber and this appears to be continuing
171	W. Usambara	Tanga	38° 29' E	4° 49' - 4° 57' S	Stuart, 1983, Lovett and Pócs, 1993	Kisima-Gonja	T.T	1440.3	Logging, firewood and building poles extraction
172	W. Usambara	Tanga			Stuart, 1983	Balangai West	T.T	1003.3	Heavily exploited for timber (Stuart, 1983)
173	W. Usambara	Tanga			Stuart, 1983	Mkussu	T.T	3674.0	Encroachment, extensive selective timber felling, the most damaged forest in the WU and one of the most threatened (Stuart, 1983)
174	W. Usambara	Tanga			Iversen, 1991	Ndelemai	T.T	1421.0	Extensive clearance (Stuart, 1983)

175	W. Usambara	Tanga			Stuart, 1983	Shagayu	T.T	7834.0	2 nd largest forest in WU, heavily encroached, clearing; softwood plantation (Stuart, 1983)
176	W. Usambara	Tanga			Stuart, 1983; Lovett & Stuart, 2001; Collins, <i>et al.</i> , 2006	Shume Magamba	T.T	12225.0	Encroachment for agriculture, timber felling; Fire; Lovett & Stuart note “heavily utilized by local people, bark for roofing, fence construction; <i>Catha edulis</i> leaves are harvested, firewood, medicinal plants, etc.
177	W. Usambara	Tanga				Shume Magamba Extn.	T.T	48.9	
178	W. Usambara	Tanga	38° 33' - 38° 37' E	4° 38' - 4° 42' S	Lovett and Pócs, 1993	Mweni Gombero	T.T	1029.0	Logging, fire
179	W. Usambara	Tanga	38° 38' E	4° 43' S	Lovett and Pócs, 1993	Bumba Mavumbi	T.T	1044.0	Logging, building poles extraction
180	W. Usambara	Tanga				Kikongoloi	T.T	245.2	
181	W. Usambara	Tanga				Manka	T.T	133.6	
182	W. Usambara outlier	Tanga	38° 38' E	4° 43' S	Stuart (1983) notes that 2 patches called Bumba-Gombelo may be part of Mwenigombero FR and also Bumba-Mavumbi (p.236)	Bumba Mavumbi	T.T	1056.0	According to Stuart (1983) they are inaccessible, surrounded by uninhabited land and therefore in no danger; Building pole extraction (Lovett and Pocs, 1993)
183	W. Usambara outlier	Tanga	38° 11' - 38° 06' E	4° 53' - 4° 57' S	Lovett and Pócs, 1993	Mafi Hill	T.T	4508.0	Firewood and building poles extraction
184	W. Usambara outlier	Tanga	38° 31' E	4° 57' S	Iversen, 1991, Lovett and Pócs, 1993; Stuart, 1983	Mahezangulu	T.T	325.8	Logging, firewood extraction. Stuart (1983) notes that it has been heavily explored for building poles.
185	W. Usambara	Tanga	38° 27' E	5° 04' S	Lovett and Pócs, 1993	Vugiri	T.T	40.8	Logging, firewood and poles extraction, grazing,
186	W. Usambara	Tanga	38° 31' 0 E	4° 55' 60 S		Balangai East	T.T	325.8	
187	W. Usambara	Tanga	38° 30' E	4° 58' S	Lovett and Pócs, 1993	Migombani	T.T	95.0	Logging, building poles extraction

188	W. Usambara					Ndolwa	T.T	1159.3	
189	E. Usambara	Tanga	38° 39' - 38° 43' E	4° 52' - 4° 47' S	Lovett and Pócs, 1993	Bombo West	T.T	3523.0	Grazing, fire, building poles and fuelwood extraction,
190	E. Usambara	Tanga	E 38° 37' – 41'	S 04° 50' – 59'	Cordeiro (1998); Beharrell <i>et al.</i> , 2002	Nilo	T.T	6025.0	Pole cutting, fire, invasion by exotic tree species; Cordeiro (1998) lists pole-cutting, pit-sawing, livestock grazing and cannabis and cardamom cultivation.
191	E. Usambara	Tanga	4° 58'S	38° 47'E	Cunneyworth and Stubblefield, 1996b	Bamba Ridge	T.T	1109.0	
192	E. Usambara	Tanga	38° 42'E	5° 00'S	Cunneyworth, 1996a	Kambai	T.T	1050.0	Pole and Timber extraction
193	E. Usambara	Tanga	38° 44'E - 38° 47'E	4° 55' S - 4° 57' S	Doggart <i>et al.</i> , 1999a	Kwamgumi	T.T	1149.0	Pole and timber extraction, fire
194	E. Usambara	Tanga	38° 43'E – 38° 47'E	4° 57' S - 5° 01' S	Doody <i>et al.</i> , 2001c	Segoma	T.T	1100.0	Pole and timber cutting, fire, invasion by exotic tree species
195	E. Usambara	Tanga	38°41'E - 38°43'E	4°56' - 4°58' S	Doggart <i>et al.</i> , 2001	Semdoe	T.T	980.0	Pole and timber cutting, fire
196	E. Usambara	Tanga	38° 44'E - 38° 48'E	4° 51'S - 4° 54'S	Doggart <i>et al.</i> , 1999b	Mtai	T.T	3107.0	Timber and pole cutting, fire, mining, hunting; Stuart (1983) regarded it as secure due to low human population density.
197	E. Usambara	Tanga	E 38° 44' 30'' - 38° 46' 00'' E	S 05° 04' 00'' – S 5° 05' 00''	Hall <i>et al.</i> , 2002	Mlinga	T.T	840.0	Mainly fire, also tree cutting, grazing
198	E. Usambara	Tanga	38° 45'E - 38° 47'E;	5° 00' S – 5° 02' S	Doggart <i>et al.</i> , 1999c	Manga	T.T	1635.0	Fire, tree cutting
199	E. Usambara	Tanga	38° 42'E	5° 00'S	Cunneyworth and Stubblefield, 1996	Mlungui	T.T	200.0	Pole cutting and timber extraction (tree cutting)
200	E. Usambara	Tanga	38° 41'E	5° 02'S	Cunneyworth, 1996	Longuza	T.T	1541.3	Timber and pole extraction, grazing

201	Uluguru (outlier)	Morogoro	37° 35' - 37° 37' E	6° 41' - 6° 44' S	Lovett and Pócs, 1993, Lovett <i>et al.</i> , 1995	Nguru ya Ndege	T.T	2407.7	Fire, fuelwood extraction
202	Mahenge	Morogoro	36° 43' E	8° 42' - 8° 43' S	Lovett and Pócs, 1993	Nawenge	T.T	623.0	Firewood extraction, fire
203	E. Usambara	Tanga				Kizee	VFR	39.4	
204	E. Usambara	Tanga				Kizangata	VFR	6.2	
205	E. Usambara	Tanga	E 38° 35' 49.7"	S 4° 54' 41.4"	Veltheim <i>et al.</i> , 2002	Mfundia	VFR	786.4	
206	E. Usambara	Tanga				Handei	VFR	156.0	
207	Udzungwa	Iringa	35° 36' 50" - 35° 38' 15" E	08° 35' 15" - 08° 17' 07" S	Lovett and Pócs, 1993; Woodcock, 1998	Lulanda	VFR	197.0	Timber, building poles and firewood extraction; Woodcock (1998) notes pitsawing for timber, woody and non-woody biomass removal, poles, firewood, medicines taken without control.
208	Udzungwa	Morogoro	36° 24' E	7° 53' S	Dinesen <i>et al.</i> , 2001	Ukami	VFR	85.0	Bushfires
209	Nguu	Tanga	37° 36'-37° 32' E	5° 27'-5° 38' S	Menegon <i>et al.</i> , 2003, Seddon <i>et al.</i> , 1999	Nguu North	T.T	2720	Pitsawing, cultivation, pole collection.

Key

VFR = Village Government Forest Reserve

T.T = Central Government Forest Reserve managed by the central government, Forest and Beekeeping Division

L. A = Local Authority Forest Reserve managed by local government

3.2 Additional Information on Forest Reserves

There are other forest reserves including Addenda-Kitara ridge which is noted as the largest Local Authority FR in the Usambaras, almost completely cleared (Stuart, 1983, p.235). Stuart (1983, p. 236) also notes Ndelemai as a low-lying forest surrounded by mass of high human population density and has suffered from extensive clearance.

Mali forest on public land has been cleared; important for catchment (Stuart, 1983, p.236).

Kileta-Maluda forest on public land; its former connections to Mali, Balangai and Dindira have been broken due to harvesting for nearby sawmill (Stuart, 1983, p. 236)

Kwenhondwe: Stuart notes that this is the last patch of forest in the low West Usambara foothills, 350-500m and is heavily exploited.

Stuart (1983) notes Hundu-Kisiwani as the largest forest in the Usambaras, accounting for 18% of total forest area. Lutindi and Kilanga FRs are included in Hundu-Kisiwani. Under threat from timber extraction, possible quinine and caardomm planting, the southern half of Hundu-Kisiwani is vulnerable.

Some forests and reserves covered in Stuart (1983) are not mentioned, probably due to amalgamation e.g. Hundu-Kisiwani. Stuart also notes that Zillai, Ngambo, Bulwa, Marvera and Nderema tea estates have forests associated with them.

Stuart notes that Monga-Amani is an extension of the Sigi Forest of the Amani-Kwamkoro road, and that it contains three FRs AmaniWest, northern half of Kwamkoro and Mnyusi Scarp. These forests are amalgamated to form Amani Nature Reserve.

Parts of Kwamkoro FR are being cleared for plantations of the tree *Cephalosphaera usambranesis*. Clearance of Monga-Amani represents the most extensive forest destruction taking place in the Usambaras at the present time (Stuart, 1983).

Nguu North Catchment Forest Reserve was established in 1934 and covers an area of 14042 ha. Gombero is in the northern part of Nguu Forest Reserve and Luago is located in the southern regions of the reserve (Seddon *et al.*, 1999).

Nilo Forest Reserve covers an area of 2720 ha and it comprises of three areas as submontane forest: Lutindi, Kilanga and Nkombola (classified as separate forest reserves until 1995) (Seddon *et al.*, 1999).

According to Butynski and Ehardt, 2003, Luhombero, Ndundulu, Nyumbanitu and Ukami Forests are included within West Kilombero Scarp Forest Reserve

3.3 Distribution of Endemic and Near Endemic Amphibian Species Across the Eastern Arc Mountain Forests

The 55 endemic and near endemic amphibian species (Table 2) were found distributed in 61 forest reserves. Some species are restricted only in a single locality (forest reserve) e.g. *Nectophrynoides wendyae*, *N. laevis*, *Probreviceps durostris* and so on (Table 4), while other species are distributed across several forest reserves of the Eastern Arc Mountains e.g. *Hyperolius puncticulatus* (distributed in 30 forest reserves), *Nectophrynoides tornieri* (23 forests), *Callulina krefftii* (21 forests) and so on (Table 4). There is no record of any endemic and/or near endemic amphibian species in 124 forest reserves of the Eastern Arc Mountains (Table 5). The reason is that: either no surveys have been conducted in some of these forest reserves or these endemic and near endemic amphibians are not found in those forest reserves.

3.4 Endemic, Near Endemic and Threatened Species of Amphibians of Eastern Arc Mountains

A total of fifty five (55) amphibian species were found to be endemic or near endemic to the Eastern Arc Mountains. Out of these 55 species, 37 species are strictly endemic to the Eastern Arc Mountains and 18 species are near endemic (Table 2). Based on the IUCN threat categories for organisms, these species can be categorized as Critically Endangered (CR), 6 species; Endangered (EN), 14 species; Vulnerable (VU), 17 species, Least Concern (LC), 12 species; Near Threatened (NT), one species and Data Deficient (DD), 5 species (Table 2). Classification of endemism and threat status was based on (Channing and Howell, 2006; GAA, 2006).

Table 2: Endemic and Near Endemic Amphibian Species of the Eastern Arc Mountains

No	Species	Author	Endemism	Threat status	Forest
1	<i>Afrixalus morerei</i>	Dubois, 1985	E	VU	f
2	<i>Afrixalus uluguruensis</i>	Barbour & Loveridge, 1928	NE	VU	FF
3	<i>Arthroleptides martiensseni</i>	Nieden, 1910	NE	EN	FF
4	<i>Arthroleptides yakusini</i>	Channing <i>et al.</i> , 2002	E	EN	FF
5	<i>Arthroleptis affinis</i>	Ahl, 1939	NE	LC	FF
6	<i>Arthroleptis nikeae</i>	Poynton, 2003	E	EN	FF
7	<i>Arthroleptis reichei</i>	Nieden, 1910	NE	NT	FF
8	<i>Arthroleptis tanneri</i>	Grandison, 1983	E	VU	FF
9	<i>Arthroleptis xenodactylus</i>	(Boulenger, 1909)	NE	VU	F
10	<i>Boulengerula boulengeri</i>	Tornier, 1896	E	LC	FF
11	<i>Boulengerula niedeni</i>	Müller <i>et al.</i> , 2005	E	CR	F
12	<i>Boulengerula taitanus</i>	Loveridge, 1935	E	LC	F
13	<i>Boulengerula uluguruensis</i>	Barbour & Loveridge, 1928	E	LC	F
14	<i>Bufo brauni</i>	Nieden, 1910	E	EN	FF
15	<i>Bufo uzunguensis</i>	Loveridge, 1932	NE	VU	NF

16	<i>Callulina kisiwamsitu</i>	de Sa <i>et al.</i> , 2004	E	EN	FF
17	<i>Callulina krefftii</i>	Nieden, 1911 “1910”	NE	LC	FF
18	<i>Churamiti maridadi</i>	Channing & Stanley, 2002	E	CR	FF
19	<i>Hoplophryne rogersi</i>	Barbour & Loveridge, 1928	E	EN	FF
20	<i>Hoplophryne uluguruensis</i>	Loveridge, 1925	E	VU	FF
21	<i>Hyperolius kihangensis</i>	Schiøtz and Westergaard, 1999	E	EN	FF
22	<i>Hyperolius minutissimus</i>	Schiøtz, 1975	NE	VU	NF
23	<i>Hyperolius puncticulatus</i>	Pfeffer, 1893	NE	LC	F
24	<i>Hyperolius spinigularis</i>	Stevens, 1971	NE	LC	f
25	<i>Hyperolius tannerorum</i>	Schiøtz, 1982	E	EN	FF
26	<i>Hyperolius tornieri</i>	Ahl, 1931	E	DD	F
27	<i>Leptopelis barbouri</i>	Ahl, 1929	NE	VU	FF
28	<i>Leptopelis parkeri</i>	Barbour & Loveridge, 1928	E	VU	FF
29	<i>Leptopelis uluguruensis</i>	Barbour & Loveridge, 1928	E	VU	FF
30	<i>Leptopelis vermiculatus</i>	(Boulenger, 1909)	NE	VU	FF
31	<i>Nectophrynoides asperginis</i>	Poynton <i>et al.</i> , 1998	E	CR	NF
32	<i>Nectophrynoides cryptus</i>	Perret, 1971	E	EN	FF
33	<i>Nectophrynoides frontierei</i>	Menegon <i>et al.</i> , 2004	E	DD	FF
34	<i>Nectophrynoides laevis</i>	Menegon <i>et al.</i> , 2004	E	DD	FF
35	<i>Nectophrynoides laticeps</i>	Channing <i>et al.</i> , 2005	E	DD	FF
36	<i>Nectophrynoides minutus</i>	Perret, 1972	E	EN	FF
37	<i>Nectophrynoides poyntoni</i>	Menegon <i>et al.</i> , 2004	E	CR	FF
38	<i>Nectophrynoides pseudotornieri</i>	Menegon <i>et al.</i> , 2004	E	EN	FF
39	<i>Nectophrynoides tornieri</i>	Roux, 1906	NE	LC	FF
40	<i>Nectophrynoides vestergaardi</i>	Menegon <i>et al.</i> , 2004	E	EN	FF
41	<i>Nectophrynoides viviparus</i>	Tornier, 1905	NE	VU	F
42	<i>Nectophrynoides wendyae</i>	Clarke, 1988	E	CR	FF
43	<i>Parhoplophryne usambarica</i>	Barbour & Loveridge, 1928	E	CR	F
44	<i>Phlyctimantis keithae</i>	Schiøtz, 1974	E	VU	F
45	<i>Phrynobatrachus krefftii</i>	Boulenger, 1909	E	EN	F
46	<i>Phrynobatrachus uzungwensis</i>	Grandison & Howell, 1983	E	VU	FF
47	<i>Probreviceps durirostris</i>	Loader <i>et al.</i> , 2006	E	DD?	FF
48	<i>Probreviceps macrodactylus</i>	Nieden, 1926	NE	VU	FF
49	<i>Probreviceps rungwensis</i>	(Loveridge, 1932)	NE	VU	FF
50	<i>Probreviceps uluguruensis</i>	(Loveridge, 1925)	E	VU	FF
51	<i>Scolecormorphus kirkii</i>	Boulenger, 1883	NE	LC	FF
52	<i>Scolecormorphus uluguruensis</i>	Barbour & Loveridge, 1928	E	LC	FF
53	<i>Scolecormorphus vittatus</i>	Boulenger, 1895	E	LC	FF
54	<i>Spelaeophryne methneri</i>	Ahl, 1924	NE	LC	F
55	<i>Stephopaedes usambarae</i>	Poynton & Clarke, 1999	E	EN	FF

Key

Endemism: E = Strictly Endemic, NE = Near Endemic (also found in at least one other African ecoregion)

Red list status: CR = Critically Endangered, DD = Data Deficient, EN = Endangered, VU = Vulnerable, LC = Least Concern, NT = Near Threatened

Forest (degree of forest dependence (FF = strictly confined to forest, F = Mainly forest but also found outside, f = forest visitor and NF = non-forest species

Table 3: Key Forest Patches of the Eastern Arc Mountains in Terms of Species Attributes of Endemic and Near Endemic Amphibian Species.

Name of reserve	Number of species	Species	Source
Amani Nature Reserve	20	<i>Afrivalus uluguruensis</i> , <i>Arthroleptides martiensseni</i> , <i>Arthroleptis affinis</i> , <i>Arthroleptis xenodactylus</i> , <i>Boulengerula boulengeri</i> , <i>Bufo brauni</i> , <i>Callulina kreffti</i> , <i>Hoplophryne rogersi</i> , <i>Hyperolius puncticulatus</i> , <i>Hyperolius spinigularis</i> , <i>Leptopelis barbouri</i> , <i>Leptopelis uluguruensis</i> , <i>Leptopelis vermiculatus</i> , <i>Leptopelis parkeri</i> , <i>Nectophrynoides frontierei</i> , <i>Nectophrynoides tornieri</i> , <i>Parhoplophryne usambarica</i> , <i>Phrynobatrachus kreffti</i> , <i>Probreviceps macrodactylus</i> , <i>Scolecophorus vittatus</i>	Channing and Howell, 2006; Doody <i>et al.</i> , 2001; Harper and Vonesh (2003); Loader <i>et al.</i> , 2004; Measey, 2004; Menegon <i>et al.</i> , 2004; Schiötz, 1975, 1999 and database
Ambangulu	8	<i>Arthroleptis affinis</i> , <i>Boulengerula boulengeri</i> , <i>Bufo brauni</i> , <i>Callulina kisiwamsitu</i> , <i>Hyperolius puncticulatus</i> , <i>Leptopelis vermiculatus</i> , <i>Nectophrynoides vestergaardi</i> , <i>Phrynobatrachus kreffti</i>	Channing and Howell, 2006; UDSM database
Balangai East	1	<i>Arthroleptis tanneri</i>	Channing and Howell, 2006; Grandson, 1983 (as Balangai)
Balangai West	1	<i>Arthroleptis tanneri</i>	Channing and Howell, 2006; Grandson, 1983 (as Balangai)
Bamba	10	<i>Arthroleptis xenodactylus</i> , <i>Boulengerula boulengeri</i> , <i>Bufo brauni</i> , <i>Callulina kreffti</i> , <i>Hoplophryne rogersi</i> , <i>Leptopelis barbouri</i> , <i>Leptopelis uluguruensis</i> , <i>Leptopelis parkeri</i> , <i>Nectophrynoides tornieri</i> , <i>Scolecophorus vittatus</i>	As Bamba ridge: Channing and Howell, 2006; Cunneyworth and Stubblefield, 1996b; Harper and Vonesh, 2003; UDSM database
Brook Bond	2	<i>Hyperolius puncticulatus</i> , <i>Phlyctimantis keithae</i>	As Brook Bond estate: UDSM database
Bunduki I-III	4	<i>Callulina kreffti</i> , <i>Hoplophryne uluguruensis</i> , <i>Hyperolius puncticulatus</i> , <i>Leptopelis parkeri</i>	As bunduki: Channing and Howell, 2006, Doggart <i>et al.</i> , 2000; Schiötz, 1975, UDSM database
Chome	3	<i>Arthroleptis affinis</i> , <i>Callulina kisiwamsitu</i> , <i>Leptopelis parkeri</i>	Channing and Howell, 2006, UDSM database
Derema	1	<i>Hyperolius puncticulatus</i>	Schiötz, 1975
Ikwamba	2	<i>Hyperolius puncticulatus</i> , <i>Probreviceps durirostris</i>	Loader <i>et al.</i> , 2006; UDSM database

Kambai	8	<i>Arthroleptides martiensseni</i> , <i>Boulengerula boulengeri</i> , <i>Bfo brauni</i> , <i>Hoplophryne rogersi</i> , <i>Leptopelis barbouri</i> , <i>Leptopelis uluguruensis</i> , <i>Leptopelis vermiculatus</i> , <i>Scolecormorphus vittatus</i>	Channing and Howell, 2006; Cunneyworth, 1996; Harper and Vonesh, 2003; UDSM database
Kanga	8	<i>Afrixalus uluguruensis</i> , <i>Arthroleptis affinis</i> , <i>Arthroleptis xenodactylus</i> , <i>Boulengerula uluguruensis</i> , <i>Leptopelis uluguruensis</i> , <i>Nectophrynoides tornieri</i> , <i>Phrynobatrachus uzungwensis</i> , <i>Probreviceps macrodactylus</i>	Menegon and Doggart (in prep), UDSM database
Kasanga	4	<i>Arthroleptides martiensseni</i> , <i>Arthroleptides yakusini</i> , <i>Bufo brauni</i> , <i>Probreviceps macrodactylus</i>	Doggart <i>et al.</i> , 2000; UDSM database
Kigogo	5	<i>Afrixalus morerei</i> , <i>Bufo uzunguensis</i> , <i>Nectophrynoides viviparus</i> , <i>Phlyctimantis keithae</i> , <i>Probreviceps macrodactylus</i> ,	Poynton <i>et al.</i> , 2005; Channing and Howell, 2006; UDSM Database
Kimboza	4	<i>Leptopelis parkeri</i> , <i>Leptopelis barbouri</i> , <i>Leptopelis vermiculatus</i> , <i>Nectophrynoides tornieri</i>	Doggart <i>et al.</i> , 2000; Menegon <i>et al.</i> , 2004, UDSM database
Kindoroko	2	<i>Phrynobatrachus kreffti</i> , <i>Scolecormorphus vittatus</i>	Channing and Howell, 2006; UDSM database
Kwamarimba	3	<i>Bufo brauni</i> , <i>Leptopelis barbouri</i> , <i>Scolecormorphus vittatus</i>	Cunneyworth, 1996b, Harper and Vonesh, 2003
Kwamgumi	12	<i>Arthroleptides martiensseni</i> , <i>Bufo brauni</i> , <i>Callulina kreffti</i> , <i>Hoplophryne rogersi</i> , <i>Hyperolius puncticulatus</i> , <i>Leptopelis uluguruensis</i> , <i>Leptopelis vermiculatus</i> , <i>Leptopelis parkeri</i> , <i>Nectophrynoides tornieri</i> , <i>Probreviceps macrodactylus</i> , <i>Scolecormorphus vittatus</i> , <i>Stephopaedes usambarae</i>	Channing and Howell, 2006; Doggart <i>et al.</i> , 1999; UDSM database
Longuza Teak plantation	2	<i>Bufo brauni</i> , <i>Scolecormorphus vittatus</i>	Channing and Howell, 2006; UDSM database
Lulanda	3	<i>Hyperolius puncticulatus</i> , <i>Scolecormorphus vittatus</i> , <i>Phlyctimantis keithae</i>	UDSM database TFCC
Lutindi	7	<i>Callulina kreffti</i> , <i>Hyperolius puncticulatus</i> , <i>Hyperolius spinigularis</i> , <i>Leptopelis barbouri</i> , <i>Leptopelis vermiculatus</i> , <i>Nectophrynoides tornieri</i> , <i>Probreviceps macrodactylus</i> ,	Channing and Howell, 2006; Schiotz, 1975; UDSM database
Mafwomero	3	<i>Arthroleptis affinis</i> , <i>Arthroleptis nikeae</i> , <i>Nectophrynoides viviparus</i>	Poynton, 2003; NMK; UDSM database
Magrotto	15	<i>Afrixalus uluguruensis</i> , <i>Arthroleptides martiensseni</i> , <i>Boulengerula boulengeri</i> , <i>Bufo brauni</i> , <i>Callulina kreffti</i> , <i>Hyperolius puncticulatus</i> , <i>Hyperolius spinigularis</i> , <i>Leptopelis barbouri</i> , <i>Leptopelis uluguruensis</i> , <i>Leptopelis vermiculatus</i> , <i>Leptopelis parkeri</i> , <i>Nectophrynoides tornieri</i> , <i>Phrynobatrachus kreffti</i> , <i>Probreviceps macrodactylus</i> , <i>Scolecormorphus vittatus</i>	Channing and Howell, 2006; Cunneyworth and Stubblefield, 1996a; Harper and Vonesh, 2003; Schiotz, 1975; UDSM database
Mahenge scarp	7	<i>Afrixalus uluguruensis</i> , <i>Arthroleptides yakusini</i> , <i>Hyperolius puncticulatus</i> , <i>Leptopelis vermiculatus</i> , <i>Nectophrynoides tornieri</i> , <i>Scolecormorphus kirkii</i> , <i>Spelaeophryne methneri</i>	Loader <i>et al.</i> , 2003; Bracebridge, 2004
Mamiwa Kisara North	5	<i>Afrixalus uluguruensis</i> , <i>Churamiti maridadi</i> , <i>Nectophrynoides laticeps</i> , <i>Probreviceps durirostris</i> , <i>Scolecormorphus kirkii</i>	Channing <i>et al.</i> , 2005; Loader <i>et al.</i> , 2006, Channing and Stanley, 2002, UDSM database
Manga	5	<i>Hyperolius puncticulatus</i> , <i>Leptopelis barbouri</i> , <i>Leptopelis vermiculatus</i> , <i>Leptopelis parkeri</i> , <i>Scolecormorphus vittatus</i>	Channing and Howell, 2006; Doggart <i>et al.</i> , 1999; UDSM database

Mangalisa	2	<i>Nectophrynoides minutus, Nectophrynoides viviparus</i>	UDSM database
Mazumbai	12	<i>Afrixalus uluguruensis, Arthroleptis tanneri Boulengerula boulengeri, Callulina kisiwamsitu, Callulina krefftii, Hyperolius puncticulatus, Hyperolius tannerorum, Leptopelis uluguruensis, Leptopelis vermiculatus, Leptopelis parkeri, Nectophrynoides tornieri, Phrynobatrachus krefftii</i>	Channing and Howell, 2006; de Sa <i>et al.</i> , 2004; Grandson, 1983; Schiötz, 1982; 1999; UDSM database
Mikumi National Park	1	<i>Scolecormorphus vittatus</i>	UDSM database
Minja	1	<i>Spelaeophryne methneri</i>	Doggart <i>et al.</i> , 2000; Loader <i>et al.</i> , 2004
Mkindu (Mkindo)	1	<i>Callulina krefftii</i>	Bracebridge, 2006
Mkungwe	10	<i>Arthroleptides martiensseni, Arthroleptis affinis, Arthroleptis xenodactylus, Boulengerula uluguruensis, Callulina krefftii Leptopelis parkeri, Nectophrynoides minutus Nectophrynoides pseudotornieri, Nectophrynoides tornieri, Probreviceps macrodactylus</i>	Channing and Howell, 2006; Doggart <i>et al.</i> , 2000; UDSM database
Mlaliwila/ Milawilila	1	<i>Spelaeophryne methneri</i>	Doggart <i>et al.</i> , 2000; Loader <i>et al.</i> , 2004; UDSM database
Mlinga	11	<i>Afrixalus uluguruensis, Arthroleptides martiensseni, Arthroleptis xenodactylus, Bufo brauni, Callulina krefftii, Leptopelis barbouri Leptopelis uluguruensis, Leptopelis parkeri, Nectophrynoides tornieri, Phrynobatrachus krefftii, Probreviceps macrodactylus</i>	Channing and Howell, 2006; Hall <i>et al.</i> , 2002; Harper and Vonesh, 2003; UDSM database
Mpanga	10	<i>Arthroleptis xenodactylus, Bufo brauni, Bufo uzunguensis, Callulina krefftii, Hyperolius puncticulatus, Leptopelis barbouri, Leptopelis uluguruensis, Leptopelis vermiculatus, Nectophrynoides tornieri, Probreviceps macrodactylus</i>	Channing and Howell, 2006; Doody <i>et al.</i> , 2001e; Harper and Vonesh, 2003; UDSM database
Mramba	1	<i>Leptopelis vermiculatus</i>	UDSM database
Mselezi	2	<i>Arthroleptides yakusini, Spelaeophryne methneri</i>	Owen <i>et al.</i> , 2005
Mtai	14	<i>Arthroleptides martiensseni, Arthroleptis affinis, Arthroleptis xenodactylus, Bufo brauni Callulina krefftii, Hoplophryne rogersi, Hyperolius puncticulatus, Leptopelis uluguruensis, Leptopelis vermiculatus, Leptopelis parkeri, Nectophrynoides tornieri Probreviceps macrodactylus, Scolecormorphus vittatus, Stephopaedes usambarae</i>	Channing and Howell, 2006; Doggart <i>et al.</i> , 1999; Harper and Vonesh, 2003; Klemens, 1998; UDSM database
Mufindi Scarp West	1	<i>Phlyctimantis keithae</i>	Channing and Howell, 2006
Mwanihana	13	<i>Afrixalus uluguruensis, Arthroleptides martiensseni, Arthroleptides yakusini, Arthroleptis affinis, Bufo brauni, Callulina krefftii, Hyperolius puncticulatus, Leptopelis uluguruensis, Leptopelis parkeri, Nectophrynoides tornieri, Phrynobatrachus uzunguensis, Probreviceps macrodactylus, Spelaeophryne methneri</i>	Channing and Howell, 2006; UDSM database
Nambiga	1	<i>Spelaeophryne methneri</i>	Chettleborough <i>et al.</i> , 2001
Nawenge	2	<i>Hyperolius puncticulatus, Spelaeophryne methneri</i>	Owen <i>et al.</i> , 2005; UDSM database

New Dabaga	9	<i>Afrixalus uluguruensis</i> , <i>Afrixalus morerei</i> , <i>Arthroleptis affinis</i> , <i>Bufo uzunguensis</i> , <i>Hyperolius puncticulatus</i> , <i>Letopelis vermiculatus</i> , <i>Nectophrynoides tornieri</i> , <i>Nectophrynoides viviparous</i> , <i>Phlyctimantis keithae</i> ,	Doddy <i>et al.</i> , 2001b; Database
Ngambaula	1	<i>Spelaeophryne methneri</i>	Doggart <i>et al.</i> , 2000
Nguu North	6	<i>Afrixalus uluguruensis</i> , <i>Letopelis vermiculatus</i> , <i>Letopelis uluguruensis</i> , <i>Hyperolius puncticulatus</i> , <i>Hoplophryne rogersi</i> and <i>Phrynobatrachus uzungwensis</i> .	Menegon <i>et al.</i> , 2003
Nguru South	20	<i>Afrixalus uluguruensis</i> , <i>Arthroleptides martienseni</i> , <i>Arthroleptis affinis</i> , <i>Arthroleptis tanneri</i> , <i>Arthroleptis xenodactylus</i> , <i>Boulengerula uluguruensis</i> , <i>Bufo brauni</i> <i>Hoplophryne rogersi</i> , <i>Hoplophryne uluguruensis</i> , <i>Hyperolius puncticulatus</i> , <i>Hyperolius spinigularis</i> , <i>Letopelis barbouri</i> <i>Letopelis uluguruensis</i> , <i>Letopelis vermiculatus</i> , <i>Letopelis parkeri</i> , <i>Nectophrynoides tornieri</i> , <i>Phrynobatrachus uzungwensis</i> , <i>Probreviceps macrodactylus</i> <i>Scolecormorphus kirkii</i> , <i>colecormorphus vittatus</i>	Menegon and Doggart (in prep); UDSM database
Nilo	18	<i>Afrixalus uluguruensis</i> , <i>Arthroleptides martienseni</i> , <i>Arthroleptis affinis</i> , <i>Arthroleptis xenodactylus</i> , <i>Boulengerula boulengeri</i> , <i>Bufo brauni</i> , <i>Callulina kreffti</i> , <i>Hoplophryne rogersi</i> <i>Hyperolius puncticulatus</i> , <i>Hyperolius spinigularis</i> , <i>Letopelis barbouri</i> , <i>Letopelis uluguruensis</i> , <i>Letopelis vermiculatus</i> , <i>Letopelis parkeri</i> , <i>Nectophrynoides tornieri</i> <i>Phrynobatrachus kreffti</i> , <i>Probreviceps macrodactylus</i> , <i>Scolecormorphus vittatus</i>	Channing and Howell, 2006; Beharrell <i>et al.</i> , 2002; Harper and Vonesh, 2003; Loader <i>et al.</i> , 2004; UDSM database
Njerera (Luhega)	1	<i>Hyperolius kihangensis</i>	Channing and Howell, 2006
Sali	9	<i>Afrixalus uluguruensis</i> , <i>Arthroleptides yakusini</i> , <i>Hyperolius puncticulatus</i> , <i>Letopelis vermiculatus</i> , <i>Letopelis uluguruensis</i> , <i>Nectophrynoides tornieri</i> , <i>Phrynobatrachus uzungwensis</i> , <i>Scolecormorphus kirkii</i> , <i>Spelaeophryne methneri</i>	Loader <i>et al.</i> , 2003; Loader <i>et al.</i> , 2004; Owen <i>et al.</i> , 2005;
Segoma	10	<i>Arthroleptides martienseni</i> , <i>Arthroleptis tanneri</i> , <i>Boulengerula boulengeri</i> , <i>Bufo brauni</i> <i>Callulina kreffti</i> , <i>Letopelis uluguruensis</i> , <i>Letopelis vermiculatus</i> , <i>Nectophrynoides tornieri</i> , <i>Scolecormorphus vittatus</i> , <i>Stephopaedes usambarae</i>	Channing and Howell, 2006; Doody <i>et al.</i> , 2001c; Harper and Vonesh, 2003; UDSM database
Semdoe	7	<i>Arthroleptides martienseni</i> , <i>Bufo brauni</i> <i>Nectophrynoides tornieri</i> ,	Channing and Howell, 2006; Doggart <i>et al.</i> , 1991; Harper and Vonesh, 2003; UDSM database
Shikurufumi	7	<i>Arthroleptis affinis</i> , <i>Callulina kreffti</i> , <i>Hyperolius puncticulatus</i> , <i>Phrynobatrachus uzungwensis</i> , <i>Probreviceps macrodactylus</i> , <i>Scolecormorphus uluguruensis</i> , <i>Spelaeophryne methneri</i>	Doggart <i>et al.</i> , 2000; Mkonyi, 2005; UDSM database
Shume Magamba	6	<i>Callulina kisiwamsitu</i> , <i>Callulina kreffti</i> , <i>Hyperolius spinigularis</i> , <i>Nectophrynoides tornieri</i> , <i>Nectophrynoides vestergaardi</i> , <i>Phrynobatrachus kreffti</i> ,	Channing and Howell, 2006; Menegon <i>et al.</i> , 2004; Schiotz, 1975; UDSM database

Taita Hills	2	<i>Boulengerula niedeni, Boulengerula taitanus</i>	Channing and Howell, 2006; Measey, 2004; Muller <i>et al.</i> , 2005
Udzungwa National Park	4	<i>Arthroleptides yakusini, Hyperolius puncticulatus, Phrynobatrachus uzungwensis, Spelaeophryne methneri,</i>	Grandson and Howell, 1983; UDSM database
Udzungwa scarp	25	<i>Afrixalus uluguruensis, Afrixalus morerei, Arthroleptides yakusini, Arthroleptis affinis, Arthroleptis reichei, Arthroleptis xenodactylus, Bufo brauni, Hyperolius kihangensis, Hyperolius puncticulatus, Hyperolius spinigularis, Leptopelis barbouri, Leptopelis uluguruensis, Leptopelis vermiculatus, Leptopelis parkeri, Nectophrynoides asperginis, Nectophrynoides poyntoni, Nectophrynoides tornieri, Nectophrynoides viviparous, Nectophrynoides wendyae, Phlyctimantis keithae, Phrynobatrachus uzungwensis, Probreviceps macrodactylus Probreviceps rungwensis Scolecomorphus kirkii, Spelaeophryne methneri</i>	Channing and Howell, 2006; Clarke, 1988; Menegon and Salvidio, 2005; Menegon <i>et al.</i> , 2004; Poynton, 1998; Poynton <i>et al.</i> , 1998; Schiötz, 1999; UDSM database
Ukami	1	<i>Hyperolius tornieri</i>	Ahl, 1931
Ukwiva	3	<i>Arthroleptis affinis, Nectophrynoides viviparous, Nectophrynoides minutus</i>	Menegon <i>et al.</i> , 2004; UDSM database
Uluguru north	25	<i>Arthroleptides martiensseni, Arthroleptides yakusini, Arthroleptis affinis, Arthroleptis reichei, Arthroleptis xenodactylus, Boulengerula uluguruensis, Callulina kreffti, Hoplophryne uluguruensis, Hyperolius puncticulatus, Hyperolius spinigularis, Leptopelis barbouri, Leptopelis uluguruensis, Leptopelis parkeri, Nectophrynoides cryptus, Nectophrynoides minutus, Nectophrynoides pseudotornieri, Nectophrynoides tornieri, Nectophrynoides viviparous, Phrynobatrachus uzungwensis, Probreviceps macrodactylus, Probreviceps uluguruensis, Scolecomorphus kirkii, Scolecomorphus uluguruensis, Scolecomorphus vittatus, Spelaeophryne methneri</i>	Barbour and Loveridge, 1928; Bracebridge, 2005; Channing, 2000; Channing and Howell, 2006; Doggart <i>et al.</i> , 2000; Howell, 1993; Loader <i>et al.</i> , 2004; Menegon <i>et al.</i> , 2004; UDSM database
Uluguru south	19	<i>Arthroleptides martiensseni, Arthroleptides yakusini, Arthroleptis affinis, Arthroleptis reichei, Boulengerula uluguruensis, Callulina kreffti, Hoplophryne uluguruensis, Hyperolius puncticulatus, Leptopelis parkeri, Nectophrynoides cryptus, Nectophrynoides laevis, Nectophrynoides minutus, Nectophrynoides pseudotornieri, Nectophrynoides viviparous, Phrynobatrachus uzungwensis, Probreviceps macrodactylus, Probreviceps uluguruensis, Scolecomorphus uluguruensis, Spelaeophryne methneri</i>	Bracebridge, 2005; Channing and Howell, 2006; Doggart <i>et al.</i> , 2000; Howell, 1993; Loader <i>et al.</i> , 2004; Menegon <i>et al.</i> , 2004; Mkonyi, 2005; Ngalason, 2005; UDSM database
West Kilombero Scarp	14	<i>Afrixalus morerei, Arthroleptides martiensseni, Arthroleptides yakusini, Arthroleptis affinis, Arthroleptis reichei, Arthroleptis xenodactylus, Callulina kreffti, Hoplophryne uluguruensis, Hyperolius puncticulatus, Nectophrynoides viviparous, Probreviceps macrodactylus, Probreviceps rungwensis, Scolecomorphus kirkii, Scolecomorphus vittatus</i>	Channing and Howell, 2006; Doody <i>et al.</i> , 2001d; Loader <i>et al.</i> , 2004; UDSM database

Table 4: Distribution of Key Amphibian Species Across the Forests of the Eastern Arc Mountains

Species	No. of forests in which a species is found	Forests	Other Localities	Source
<i>Afrixalus uluguruensis</i>	14	Amani Nature Reserve, Kanga, Magrotto, Mahenge scarp, Mamiwa Kisara North, Mazumbai, Mlinga, Mwanihana, New Dabaga, Nguu North, Nguru South, Nilo, Sali, Udzungwa scarp	Dabaga Forest, Uluguru Mts, Udzungwe Mts, Mahenge Mts, Kihanje, Kigorigonii, Jipe, Mkwaja area,	Beharrell <i>et al</i> 2002; Cunneyworth and Stubblefield, 1996a; Doody <i>et al.</i> , 2001a; Hall <i>et al</i> 2002; Harper and Vonesh, 2003; Loader <i>et al.</i> , 2003; Menegon and Doggart (unpublished); Menegon and Salvidio, 2005; Menegon <i>et al.</i> , 2003; Schiotz, 1975; Schiotz, 1999; Owen <i>et al.</i> , 2005, Database
<i>Afrixalus morerei</i>	4	Kigogo, New Dabaga, Udzungwa Scarp, West Kilombero Scarp	Luisenga,	Channing and Howell, 2006; Menegon and Salvidio, 2005; Schiotz, 1999; Database
<i>Arthroleptides martiensseni</i>	17	Amani Nature Reserve, Kambai, Kasanga, Kwamgumi, Magrotto, Mkungwe, Mlinga, Mtai, Mwanihana, Nguru South, Nilo, Segoma, Semdoe, Uluguru north, Uluguru south, West Kilombero Scarp, Mgambo	Nguru Mts, Bagilo, Vituri (Uluguru mts), Mt. Lutindi Bondwa peak, Kihansi gorge, Udagaji forest	Barbour and Loveridge, 1928; Beharrell <i>et al.</i> , 2002; Channing, 2000; Cunneyworth, 1996a; Cunneyworth and Stubblefield, 1996a; Doggart <i>et al.</i> , 1991; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 2000; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001c; Doody <i>et al.</i> , 2001d; Hall <i>et al.</i> , 2002; Harper and Vonesh, 2003; Klemens, 1998; Database
<i>Arthroleptides yakusini</i>	10	Kasanga, Mahenge scarp, Mselezi, Mwanihana, Sali, Udzungwa National Park, Udzungwa scarp, Uluguru north, Uluguru south, West Kilombero Scarp	Chita, Mahenge Mts, Kihansi Gorge, Sanje Falls, Bagilo.	Bracebridge, 2005; Channing and Howell, 2006; Channing <i>et al.</i> , 2002; Loader <i>et al.</i> , 2003; Menegon and Salvidio, 2005; Owen <i>et al.</i> , 2005, Database
<i>Arthroleptis affinis</i>	18	Amani Nature Reserve, Ambangulu, Chome, Kanga, Mafwomero, Mkungwe, Mtai, Mwanihana, New Dabaga, Nguru South, Nilo, Shikurufumi, Udzungwa scarp, Ugweno Division, Ukwiva, Uluguru north, Uluguru south, West Kilombero Scarp	Kifutula-Ugweno, Bulwa Tea Estate, Rondo Plateau, Pugu FR, Kiono FR, Kizerui, Ukaguru Mts	Beharrell <i>et al.</i> , 2002; Doggart <i>et al.</i> , 1999b; Doody <i>et al.</i> , 2001a; Harper and Vonesh, 2003; Menegon and Salvidio, 2005; Mkonyi, 2005; Mkonyi, 2005; Ngalason, 2005; Database
<i>Arthroleptis reichei</i>	5	Udzungwa scarp, Uluguru north, Uluguru south, West Kilombero Scarp, Ndundulu	Bondwa Peak, Lehomeru Mts., Ndundulu FR.	Doody <i>et al.</i> , 2001d; Database
<i>Arthroleptis nikeae</i>	1	Mafwomero		Poynton, 2003, Database
<i>Arthroleptis tanneri</i>	5	Balangai (East or West?), Mazumbai, Nguru South, Segoma	Ukaguru Mts., West Usambara,	Channing and Howell, 2006; Grandson, 1983; Database

<i>Arthroleptis xenodactylus</i>	14	Amani Nature Reserve, Bamba, Kanga, Mkungwe, Mlinga, Mpanga, Mtai, Nguru South, Nilo, Udzungwa scarp, Uluguru north, West Kilombero Scarp, Mgambo, Kwamarimba	Kihansi Gorge, Bagilo, Nyange, Mkarazi (Uluguru Mts), Phillipshof (Usambara Mts), Mt. Rungwe, Pemba, Pugu FR.	Barbour and Loveridge, 1928; Beharrell <i>et al.</i> , 2002; Channing and Howell, 2006; Channing, 2000; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 2000; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001d; Doody <i>et al.</i> , 2001e; Harper and Vonesh, 2003; Menegon and Doggart (in prep); Menegon and Salvidio, 2005; Database
<i>Boulengerula boulengeri</i>	8	Amani Nature Reserve, Ambangulu, Bamba, Kambai, Magrotto, Mazumbai, Nilo, Segoma	Amani, Kizerui, Kazimzumbwi FR, West	Barbour and Loveridge, 1928; Beharrell <i>et al.</i> , 2002; Channing and Howell, 2006; Cunneyworth and Stubblefield, 1996; Cunneyworth, 1996a; Doody <i>et al.</i> , 2001a; Hall <i>et al.</i> , 2002; Harper and Vonesh, 2003; Measey, 2004; Database
<i>Boulengerula niedeni</i>	1	Taita Hills	Sagalla Hill, Taita-Taveta	Muller <i>et al.</i> , 2005.
<i>Boulengerula taitanus</i>	1	Taita Hills		Channing and Howell, 2006; Measey, 2004
<i>Boulengerula uluguruensis</i>	5	Kanga, Mkungwe, Nguru South, Uluguru north, Uluguru south,	Bagilo, Nyange, Viture, Mkarazi (Uluguru Mts), Kazimzumbwi FR	Barbour and Loveridge, 1928; Channing and Howell, 2006; Doggart <i>et al.</i> , 2000; Menegon and Doggart (in prep); Database
<i>Bufo brauni</i>	18	Amani Nature Reserve, Ambangulu, Bamba, Kambai, Kasanga, Kwamgumi, Longuza Teak plantation, Magrotto, Mlinga, Mpanga, Mtai, Mwanihana, Nguru South, Nilo, Segoma, Semdoe, Udzungwa scarp, Kwamarimba	Bagilo, Soni Falls, Nyange, Mkarazi, Bumbuli, Bagilo, Nyange, Mkarazi (Uluguru Mts), Monga Tea Estate	Barbour and Loveridge, 1928; Beharrell <i>et al.</i> , 2002; Channing and Howell, 2006; Cunneyworth, 1996a; Cunneyworth, 1996b; Cunneyworth and Stubblefield, 1996a; Doggart <i>et al.</i> , 1991; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 2000; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001c; Doody <i>et al.</i> , 2001e; Harper and Vonesh, 2003; Menegon and Doggart (in prep); Menegon and Salvidio, 2005; Database
<i>Bufo uzunguensis</i>	4	Kigogo, Mpanga, New Dabaga, Ulagambi	Dabaga, Lukungu, Mbeya mountain, Gendawaki,	Poynton <i>et al.</i> , 2005; Database
<i>Callulina kisiwamsitu</i>	4	Ambangulu, Chome, Mazumbai, Shume Magamba,		Channing and Howell, 2006; de Sa <i>et al.</i> , 2004
<i>Callulina krefftii</i>	21	Amani Nature Reserve, Bamba, Bunduki I-III, Kwamgumi, Lutindi, Magrotto, Mazumbai, Minja, Mkungwe, Mlinga, Mpanga, Mtai, Mwanihana, Nilo, Segoma, Mkindo, Shikurufumi, Shume Magamba, Uluguru north, Uluguru south, West Kilombero Scarp	Ukaguru Mts, Bagilo, Viture, (Uluguru Mts), Amani, Kizerui and Phillipshof (Usambara Mts), Bondwa Peak, Maskati, Bulwa forest, Kwale, Taita, Maskati, Taita Hills, Usambara E. Mts	Barbour and Loveridge, 1928; Beharrell <i>et al.</i> , 2002; Bracebridge, 2006; Channing and Howell, 2006; Cunneyworth and Stubblefield, 1996; Cunneyworth and Stubblefield, 1996a; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 2000; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001c; Doody <i>et al.</i> , 2001d; Doody <i>et al.</i> , 2001e; Hall <i>et al.</i> , 2002; Harper and Vonesh, 2003; Loader <i>et al.</i> , 2004; Mkonyi, 2005; Database

<i>Churamiti maridadi</i>	1	Mamiwa Kisara North		Channing and Howell, 2006; Channing and Stanley, 2002
<i>Hoplophryne rogersi</i>	8	Amani Nature Reserve, Bamba, Kambai, Kwamgumi, Mtai, Nguu North, Nguru South, Nilo	Monga Tea Estate.	Barbour and Loveridge, 1928; Beharrell <i>et al.</i> , 2002; Channing and Howell, 2006; Cunneyworth and Stubblefield, 1996; Cunneyworth, 1996a; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 1999b; Doody <i>et al.</i> , 2001a; Harper and Vonesh, 2003; Loader <i>et al.</i> , 2004; Menegon <i>et al.</i> , 2003; Database
<i>Hoplophryne uluguruensis</i>	5	Bunduki I-III, Nguru South, Uluguru north, Uluguru south, West Kilombero Scarp	Bagilo, Nyingwa, Vituri, Nyange, (Uluguru Mts)	Barbour and Loveridge, 1928; Bracebridge, 2005; Channing and Howell, 2006; Loader <i>et al.</i> , 2004; Menegon and Doggart (in prep); Database
<i>Hyperolius kihangensis</i>	2	Njerera (Luhega), Udzungwa Scarp	Kihanje	Channing and Howell, 2006; Menegon and Salvidio, 2005; Database
<i>Hyperolius puncticulatus</i>	30	Amani Nature Reserve, Ambangulu, Brooke Bond, Bunduki I-III, Derema, Ikwamba, Kwamgumi, Lulanda, Lutindi, Magrotto, Mahenge scarp, Manga, Mazumbai, Mpanga, Mtai, Mwanihana, Nawenge, New Dabaga, Nguu North, Nguru South, Nilo, Sali, Shikurufumi, Udzungwa National Park, Udzungwa scarp, Uluguru north, Uluguru south, West Kilombero Scarp, Ndundulu, Matundu	Magamba, Sao Hill, Rungwe, Phillipshof (Usambara mts), Kambona FR, Kihansi area, Kilombero valley, Kazimzumbwi FR, Kiwengoma FR, Mandege, Ukaguru Mts, Dabaga, Malenge, Boma, Ilelo, Mwaya	Barbour and Loveridge, 1928; Beharrell <i>et al.</i> , 2002; Bracebridge, 2005; Channing, 2000; Cunneyworth and Stubblefield, 1996a; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 1999c; Doggart <i>et al.</i> , 2000; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001d; Doody <i>et al.</i> , 2001e; Frontier Tanzania 2001; Harper and Vonesh, 2003; Loader <i>et al.</i> , 2003; Menegon and Doggart (in prep); Menegon and Salvidio, 2005; Menegon <i>et al.</i> , 2003; Mkonyi, 2005; Owen <i>et al.</i> , 2005, Schiotz, 1975; Database
<i>Hyperolius minutissimus</i>	0		Njombe, Udzungwa Mts, South-Western Tanzania	Schiotz, 1975; 1999
<i>Hyperolius spinigularis</i>	8	Amani Nature Reserve, Lutindi, Magrotto, Nguru South, Nilo, Shume Magamba, Udzungwa scarp, Uluguru north	Ruvu South FR.	Beharrell <i>et al.</i> , 2002; Channing, 2000; Cunneyworth and Stubblefield, 1996a; Doggart <i>et al.</i> , 2000; Harper and Vonesh, 2003; Menegon and Doggart (in prep); Menegon and Salvidio, 2005; Schiotz, 1975; Schiotz, 1999; Database
<i>Hyperolius tannerorum</i>	1	Mazumbai		Schiotz, 1982; Schiotz, 1999
<i>Hyperolius tornieri</i>	1	Ukami		Ahl, 1931
<i>Leptopelis barbouri</i>	15	Amani Nature Reserve, Bamba, Kambai, Lutindi, Magrotto, Manga, Mlinga, Mpanga, Nguru South, Nilo, Udzungwa scarp, Uluguru north, Mgambo, Kwamarimba, Mamiwa Kisara North	Kizerui, Dabaga Forest,	Beharrell <i>et al.</i> , 2002; Cunneyworth and Stubblefield, 1996; Cunneyworth and Stubblefield, 1996a; Cunneyworth, 1996a; Cunneyworth, 1996b; Hall <i>et al.</i> , 2002; Harper and Vonesh, 2003; Menegon and Salvidio, 2005; Schiotz, 1975; Database

<i>Leptopelis uluguruensis</i>	18	Amani Nature Reserve, Bamba, Kambai, Kanga, Kwamgumi, Magrotto, Mazumbai, Mlinga, Mpanga, Mtai, Mwanihana, Nguu North, Nguru South, Nilo, Sali, Segoma, Udzungwa scarp, Uluguru north	Bulwa, Kihansi Gorge, Kihansi, Nyange, Vituri (Uluguru Mts)	Barbour and Loveridge, 1928; Beharrell <i>et al.</i> , 2002; Bracebridge, 2005; Cunneyworth and Stubblefield, 1996; Cunneyworth and Stubblefield, 1996a; Cunneyworth, 1996a; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 1999b; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001c; Doody <i>et al.</i> , 2001e; Hall <i>et al.</i> , 2002; Harper and Vonesh, 2003; Menegon and Doggart (in prep); Menegon and Salvidio, 2005; Menegon <i>et al.</i> , 2003; Owen <i>et al.</i> , 2005, Schiotz, 1975; Database
<i>Leptopelis vermiculatus</i>	19	Amani Nature Reserve, Ambangulu, Kambai, Kwamgumi, Lutindi, Magrotto, Mahenge scarp, Manga, Mazumbai, Mpanga, Mramba, Mtai, New Dabaga, Nguu North, Nguru South, Nilo, Sali, Segoma, Udzungwa scarp, Kimboza	Rungwe	Barbour and Loveridge, 1928; Beharrell <i>et al.</i> , 2002; Cunneyworth, 1996a; Cunneyworth and Stubblefield, 1996a; Doggart <i>et al.</i> , 1999a; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001b; Doody <i>et al.</i> , 2001c; Doody <i>et al.</i> , 2001e; Harper and Vonesh, 2003; Loader <i>et al.</i> , 2003; Menegon and Doggart (in prep); Menegon and Salvidio, 2005; Menegon <i>et al.</i> , 2003; Owen <i>et al.</i> , 2005, Schiotz, 1975; Database
<i>Leptopelis parkeri</i>	18	Amani Nature Reserve, Bamba, Bunduki I-III, Chome, Kwamgumi, Magrotto, Manga, Mazumbai, Mkungwe, Mlinga, Mtai, Mwanihana, Nguru South, Nilo, Udzungwa scarp, Uluguru north, Uluguru south, Kimboza	Dabaga, Mangasini, Kihanga, Luhega Forest, Vituri (Uluguru Mts), Nyumbanitu.	Barbour and Loveridge, 1928; Beharrell <i>et al.</i> , 2002; Bracebridge, 2005; Channing and Howell, 2006; Cunneyworth and Stubblefield, 1996; Cunneyworth and Stubblefield, 1996a; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 1999c; Doggart <i>et al.</i> , 2000; Doody <i>et al.</i> , 2001a; Hall <i>et al.</i> , 2002; Harper and Vonesh, 2003; Menegon and Salvidio, 2005; Mkonyi, 2005; Schiotz, 1975; Database
<i>Nectophrynoides asperginis</i>	1	Udzungwa Scarp (Kihansi Gorge)	Kihansi Gorge	Menegon and Salvidio, 2005; Menegon <i>et al.</i> , 2004; Poynton <i>et al.</i> , 1998; Database
<i>Nectophrynoides cryptus</i>	2	Uluguru North and Uluguru South	Nyingwa, Bondwa Peak	Barbour and Loveridge, 1928; Channing and Howell, 2006; Doggart <i>et al.</i> , 2000; Howell, 1993
<i>Nectophrynoides frontierei</i>	1	Amani Nature Reserve		Menegon <i>et al.</i> , 2004; Database
<i>Nectophrynoides laevis</i>	1	Uluguru South		Menegon <i>et al.</i> , 2004; Database
<i>Nectophrynoides laticeps</i>	1	Mamiwa Kisara North		Channing <i>et al.</i> , 2005
<i>Nectophrynoides minutus</i>	4	Mangalisa, Mkungwe, Ukwiva, Uluguru north, Uluguru south,	Bagilo, Ruvu FR	Channing and Howell, 2006; Doggart <i>et al.</i> , 2000; Howell, 1993; Menegon <i>et al.</i> , 2004 Database
<i>Nectophrynoides poyntoni</i>	1	Udzungwa Scarp		Menegon and Salvidio, 2005; Menegon <i>et al.</i> , 2004
<i>Nectophrynoides pseudotornieri</i>	3	Mkungwe, Uluguru North, Uluguru South		Bracebridge, 2005; Menegon <i>et al.</i> , 2004; Database

<i>Nectophrynooides tornieri</i>	23	Amani Nature Reserve, Bamba, Kanga, Kwamgumi, Lutindi, Magrotto, Mahenge scarp, Mazumbai, Mkungwe, Mlinga, Mpanga, Mtai, Mwanihana, New Dabaga, Nguru South, Nilo, Sali, Segoma, Semdoe, Shume Magamba, Udzungwa scarp, Uluguru north, Kimboza	Kizerui (Usambara Mts), Bagilo, Nyange, Nyingwa, Vituri (Uluguru Mts), East Usambara Mts., Kihansi gorge and Kitolomero, Kihansi Gorge, Udagaji Gorge	Barbour and Loveridge, 1928; Beharrell <i>et al.</i> , 2002; Cunneyworth and Stubblefield, 1996a; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 2000; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001b; Doody <i>et al.</i> , 2001c; Doody <i>et al.</i> , 2001e; Hall <i>et al.</i> , 2002; Harper and Vonesh, 2003; Loader <i>et al.</i> , 2003; Menegon and Doggart (in prep); Menegon and Salvidio, 2005; Menegon <i>et al.</i> , 2004; Database
<i>Nectophrynooides vestergaardi</i>	2	Ambangulu, Shume Magamba		Menegon <i>et al.</i> , 2004; Database
<i>Nectophrynooides viviparus</i>	10	Kigogo, Mafwomero, Mangalisa, New Dabaga, Udzungwa scarp, Ukwiva, Uluguru north, Uluguru south, West Kilombero Scarp, Ndundulu	Bagilo, Nyange, Nyingwa, Vituri, Bondwa Peak, Mativemiero, Nyumbanitu, Itengeru, Luhomeru Mts, Rungwe,	Barbour and Loveridge, 1928; Bracebridge, 2005; Doggart <i>et al.</i> , 2000; Doody <i>et al.</i> , 2001b; Doody <i>et al.</i> , 2001d; Menegon and Salvidio, 2005; Menegon <i>et al.</i> , 2004; Mkonyi, 2005; Ngilason, 2005; Database
<i>Nectophrynooides wendyae</i>	1	Udzungwa Scarp		Clarke, 1988; Menegon and Salvidio, 2005; Menegon <i>et al.</i> , 2004; Poynton, 1998; Database
<i>Parhoplophryne usambarica</i>	1	Amani Nature Reserve		Barbour and Loveridge, 1928; Channing and Howell, 2006
<i>Phlyctimantis keithae</i>	6	Brook Bond, Kigogo, Mufindi Scarp West, New Dabaga, Udzungwa scarp, Lulanda,	Masisiwe, Luisenga, Dabaga Forest,, Luhota,	Channing and Howell, 2006; Doody <i>et al.</i> , 2001b; Menegon and Salvidio, 2005; Schiotz, 1975; TFCG, Database
<i>Phrynobatrachus krefftii</i>	8	Amani Nature Reserve, Ambangulu, Kindoroko, Magrotto, Mazumbai, Mlinga, Nilo, Shume Magamba	Mt. Lutindi, Bumbuli, Phillipshof (Usambara mts)	Barbour and Loveridge, 1928; Beharrell <i>et al.</i> , 2002; Channing and Howell, 2006; Cunneyworth and Stubblefield, 1996a; Doody <i>et al.</i> , 2001a; Hall <i>et al.</i> , 2002; Harper and Vonesh, 2003; Database
<i>Phrynobatrachus uzungwensis</i>	10	Kanga, Mwanihana, Nguu North, Nguru South, Sali, Shikurufumi, Udzungwa National Park, Udzungwa scarp, Uluguru north, Uluguru south	Lupanga peak, Chita,	Bracebridge, 2005; Channing and Howell, 2006; Channing, 2000; Doggart <i>et al.</i> , 2000; Grandson and Howell, 1983; Menegon and Doggart (in prep); Menegon and Salvidio, 2005; Menegon <i>et al.</i> , 2003; Mkonyi, 2005; Owen <i>et al.</i> , 2005, Database
<i>Probreviceps durirostris</i>	2	Ikwamba, Mamiwa Kisara (N or S?)		Loader <i>et al.</i> , 2006.
<i>Probreviceps macrodactylus</i>	19	Amani Nature Reserve, Kanga, Kasanga, Kigogo, Kwamgumi, Lutindi, Magrotto, Mkungwe, Mlinga, Mpanga, Mtai, Mwanihana, Nguru South, Nilo, Shikurufumi, Udzungwa scarp, Uluguru north, Uluguru south, West Kilombero Scarp	Bulwa, Kihansi Gorge, Nguru Mts., Monga Tea Estate,	Beharrell <i>et al.</i> , 2002; Channing and Howell, 2006; Channing, 2000; Cunneyworth and Stubblefield, 1996a; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 2000; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001d; Doody <i>et al.</i> , 2001e; Hall <i>et al.</i> , 2002; Harper and Vonesh, 2003; Loader <i>et al.</i> , 2004; Menegon and Doggart (in prep); Menegon and Salvidio, 2005; Mkonyi, 2005; Database

<i>Probreviceps rungwensis</i>	4	Ndundulu, Udzungwa Scarp, West Kilombero Scarp, Ndundulu	Nkuka forest,	Loader <i>et al.</i> , 2004; Menegon and Salvidio, 2005; Parker, H. W. 1966; Database
<i>Probreviceps uluguruensis</i>	2	Uluguru North and Uluguru South	Bagilo, Nyingwa (Uluguru mts)	Barbour and Loveridge, 1928; Bracebridge, 2005; Channing and Howell, 2006; Doggart <i>et al.</i> , 2000; Loader <i>et al.</i> , 2004; Mkonyi, 2005; Ngilason, 2005; Database
<i>Scolecormorphus kirkii</i>	7	Mahenge scarp, Mamiwa Kisara North, Nguru South, Sali, Udzungwa scarp, Uluguru north, West Kilombero Scarp		Bracebridge, 2004; Bracebridge, 2005; Loader <i>et al.</i> , 2003; Menegon and Doggart (in prep); Menegon and Salvidio, 2005; Database
<i>Scolecormorphus uluguruensis</i>	3	Shikurufumi, Uluguru North, Uluguru South	Bagilo, Nyingwa	Barbour and Loveridge, 1928; Bracebridge, 2005; Channing and Howell, 2006; Channing, 2000; Doggart <i>et al.</i> , 2000; Mkonyi, 2005; Database
<i>Scolecormorphus vittatus</i>	19	Amani Nature Reserve, Bamba, Kambai, Kindoroko, Kwamgumi, Longuza Teak plantation, Lulanda, Magrotto, Manga, Mikumi National Park, Mtai, Nguru South, Nilo, Segoma, Ugweno Division, Uluguru north, West Kilombero Scarp, Mgambo, Kwamarimba	Mt. Lutindi, Phillipshof (Magamba), Bagilo, Nyange, Vituri, Bondwa Peak, Vikindu, Nguru Mts, Malundwe Hill, Usambara, Nguelo, Nyingwa, Kifula-Ugweno	Barbour and Loveridge, 1928; Beharrell <i>et al.</i> , 2002; Channing and Howell, 2006; Cunneyworth and Stubblefield, 1996; Cunneyworth, 1996b; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 1999c; Doggart <i>et al.</i> , 2000; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001d; Harper and Vonesh, 2003; Database
<i>Spelaeophryne methneri</i>	13	Mahenge scarp, Milawilila, Mselezi, Mwanihana, Nawenge, Ngambaula, Sali, Shikurufumi, Udzungwa National Park, Udzungwa scarp, Uluguru north, Uluguru south, Nambiga	Kihansi Gorge, Udagaji Gorge, Kilombero valley, Nangoma caves, Rondo Plateau, Liohumi Community Forest-Kilombero Valley, Nangoma Forest, Kihansi gorge, Nyange, Mkarazi (Uluguru Mts)	Barbour and Loveridge, 1928; Loader <i>et al.</i> , 2003; Loader <i>et al.</i> , 2004; Doggart <i>et al.</i> , 2000; Chettleborough <i>et al.</i> , 2001; Mkonyi, 2005; Owen <i>et al.</i> , 2005, Database
<i>Stephopaedes usambarae</i>	3	Kwamgumi, Mtai, Segoma		Channing and Howell, 2006; Doody <i>et al.</i> , 2001c; Harper and Vonesh, 2003; Database

Table 5: Forest Reserves of the Eastern Arc Mountains in Which There is No Record of Endemic or Near Endemic Amphibian Species.

Block	Name of reserve	Remarks
W. Usambara	Baga –I	No record
W. Usambara	Baga -II	No record
W. Usambara	Baghoi	No record
W. Usambara	Bombo Makole	No record
E. Usambara	Bombo East I	A survey has been done by Frontier Tanzania but there is no record of endemic or near endemic species so far (Staddon <i>et al.</i> , 2002a)
E. Usambara	Bombo East II	A survey has been done by Frontier Tanzania but there is no record of endemic or near endemic species so far (Staddon <i>et al.</i> , 2002b)
E. Usambara	Bombo West	No record
W. Usambara	Bumba Mavumbi	No record
Uluguru	Bunduki IV	No record
Uluguru	Bunduki VI	No record
S. Pare	Chambogo	No record
W. Usambara	Chambogo	No record
S. Pare	Chongweni	No record
W. Usambara	Deai	No record
Nguu	Derema	No record
S. Pare	Dido	No record
Uluguru (outlier)	Dindili	No record
W. Usambara	Dindira	No record
Udzungwa	Duma	No record
E. Usambara	Handei	No record
Lowland	Ibiti	No record
Udzungwa	Idewa	No record
Udzungwa	Igoda	No record
Udzungwa	Ihanga	No record
Udzungwa	Ihang'ana	No record
Udzungwa	Image	No record
Udzungwa	Ipafu	No record
S. Pare	Ishereto	No record
Udzungwa	Iwonde	No record
Udzungwa	Iyondo	No record
Nguu outlier?	Jungu	No record
N. Pare	Kamwala I	No record
N. Pare	Kamwala II	No record
S. Pare	Kankoma	No record
Udzungwa	Kawemba	No record
Udzungwa	Kibao	No record
	Kiboriani	No record
Udzungwa	Kidegemsitu	No record
Udzungwa	Kidete	No record
W. Usambara	Kifulio	No record
W. Usambara	Kikongoloi	No record
Udzungwa	Kilanzi Kitungulu	No record

Nguu	Kilindi	No record
Udzunwga	Kimala	No record
S. Pare	Kiranga-Hengae	No record
W. Usambara	Kisima Gonja	No record
Udzungwa	Kisinga-Lugalo	No record
S. Pare	Kisiwani	No record
W. Usambara	Kitara ridge	No record
Udzunwga	Kitemele	No record
Udzunwga	Kitonga	No record
Uluguru (outlier)	Kitulang'halo	No record
Udzungwa	Kitwile	No record
N. Pare	Kiverenge	No record
E. Usambara	Kizangata	No record
E. Usambara	Kizee	No record
W. Usambara	Kwamongo	No record
S. Pare	Kwamwenda	No record
W. Usambara	Kwebagu/Hebangwe	No record
Nguu	Kwediboma	No record
W. Usambara	Kwenyashu	No record
S. Pare	Kwizu	No record
Udzungwa	Kyfulilo Farm	No record
N. Pare	Lembeni Division	No record
Mahenge	Ligamba	No record
Udzungwa	Lufuna	No record
Udzungwa	Lugoda Lutali	No record
Udzungwa	Luhunga	No record
Udzungwa	Madisi	No record
W. Usambara outlier	Mafi Hill	No record
S. Pare	Maganda	No record
Lowland	Magombero	No record
Nguru?	Magotwe	No record
W. Usambara outlier	Mahenzangulu	No record
Udzungwa	Malenda Farm	No record
Ukaguru	Mamboto	No record
Ukaguru	Mamboya	No record
S. Pare	Mambugi	No record
Ukaguru	Mamiwa Kisara South	Surveys have been done in Mamiwa Kisara but is not known if it is Mamiwa Kisara North or South
W. Usambara	Manka	No record
W. Usambara	Mazashai	No record
Nguu	Mbwegere	No record
E. Usambara	Mfundia	No record
W. Usambara	Migombani	No record
Uluguru (outlier)	Mindu	No record
Uluguru	Mkangala	No record
Udzungwa	Mkonge	No record
Nguu	Mkongo	No record
Nguu	Mkuli	No record
W. Usambara	Mkusu	No record
Ukaguru?	Mlali	No record

E. Usambara	Mlungui	Surveyed by Frontier Tanzania but there is no record of endemic or near endemic amphibian species (Cunneyworth and Stubblefield, 1996)
W. Usambara	Mtumbi	No record
Udzungwa	Mufindi Scarp East	No record
Udzungwa	Mufindi Tea	No record
Mahenge	Muhulu	No record
S. Pare	Mwala	No record
W. Usambara	Mweni Gombero	No record
Udzungwa	Myangala	No record
Mahenge	Myoe	No record
W. Usambara	Mzinga	No record
W. Usambara	Mzongoti	No record
W. Usambara	Ndelemai	No record
W. Usambara	Ndolwa	No record
Udzungwa	Ndynduli	No record
Nguu	Nguru North	No record
Uluguru (outlier)	Nguru ya Ndege	No record
Udzungwa	Nyanganje	No record
Rubeho	Pala-Ulanga	No record
Nguu	Pumula	No record
Nguu outlier?	Rudewa South	No record
W. Usambara	Sekigoto	No record
W. Usambara	Shagayu	No record
W. Usambara	Shambalai	No record
W. Usambara	Shukilai	No record
W. Usambara	Tanda	No record
N. Pare	Ugweno Division	No record
Udzungwa	Ulagambi	No record
Ukaguru	Uponera	No record
N. Pare	Usangi Division	No record
W. Usambara	Vugiri	No record
S. Pare	Vumari	No record
Rubeho	Wotta	No record
W. Usambara	Yumbu	No record

3.5 Distribution of Endemic and Near Endemic Bird Species Across the Eastern Arc Mountain Forests

47 endemic and near endemic bird species (Table 6) were found distributed in 63 forest reserves.

Table 6: Endemic and Near Endemic Bird Species of the Eastern Arc Mountains

No	Species	Author	Endemism	Threat status	Forest
1	<i>Andropadus chlorigula</i>	(Reichenow, 1899), Roy <i>et al.</i> , 1997	NE	LC	FF
2	<i>Andropadus masukuensis</i>	Shelley, 1897, Roy <i>et al.</i> , 1997	NE	LC	FF
3	<i>Andropadus neumanii</i>	(Shelley, 1893), Roy <i>et al.</i> , 1997	E	LC	FF
4	<i>Andropadus milanjensis</i>	(Shelley, 1896), Roy <i>et al.</i> , 1997	NE	LC	FF
5	<i>Anthreptes pallidigaster</i>	Reichenow, 1905	NE	EN	F
6	<i>Anthreptes rubritorques</i>	Sclater & Moreau, 1935	E	VU	FF
7	<i>Apalis chariessa</i>	Reichenow, 1879	NE	VU	FF
8	<i>Apalis chapini</i>	Friedmann, 1928	NE	LC	FF
9	<i>Apalis fuscigularis</i>	Moreau, 1938	E	CR	FF
10	<i>Arcanator orostruthus</i>	(Vincent, 1933)	NE	LC	FF
11	<i>Artisornis moreaui</i>	(Sclater, 1931)	NE	CR	FF
12	<i>Artisornis metopias</i>	(Reichenow, 1907)	NE	LC	FF
13	<i>Batis mixta</i>	(Shelley, 1889)	NE	LC	FF
14	<i>Bubo vosseleri</i>	Reichenow, 1907	E	VU	FF
15	<i>Cisticola njombe</i>	Lynes, 1933	NE	LC	NF
16	<i>Cisticola nigriloris</i>	Shelley, 1897	NE	LC	NF
17	<i>Cinnyricinclus femoralis</i>	(Richmond, 1897)	NE	VU	FF
18	<i>Hyliota usambarae</i>	W.L. Sclater, 1932	E	EN	F
19	<i>Laniarius fuelleborni</i>	(Reichenow, 1900)	NE	LC	FF
20	<i>Lanius marwiti</i>	Reichenow, 1901	NE	LC	f
21	<i>Malaconotus alius</i>	Friedmann, 1927	E	EN	FF
22	<i>Modulatrix stictigula</i>	Reichenow, 1906	NE	LC	FF
23	<i>Nectarinia loveridgei</i>	(Hartert, 1922)	E	LC	FF
24	<i>Nectarinia moreaui</i>	(Sclater, 1933)	E	LC	FF
25	<i>Nectarinia rufipennis</i>	Jensen, 1983	E	VU	FF
26	<i>Nectarinia usambarica</i>	(Grote, 1922) Bowie <i>et al.</i> , 2004	E		FF
27	<i>Nectarinia fuelleborni</i>	Reichenow, 1899, Bowie <i>et al.</i> , 2004	E		FF
28	<i>Oriolus chlorocephalus*</i>	Shelley, 1896	NE	LC	F
29	<i>Ploceus nicolli</i>	Sclater, 1931	E	EN	FF
30	<i>Poeoptera kenricki</i>	Shelley, 1894	NE	LC	FF
31	<i>Scepomycter winifredae</i>	(Moreau, 1938)	E	VU	FF
32	<i>Serinus whytii</i>	Shelley, 1897	NE	LC	NF
33	<i>Serinus melanochrous</i>	Reichenow, 1900	NE	LC	F
34	<i>Sheppardia aurantiithorax</i>	Beresford <i>et al.</i> , 2004	E		FF
35	<i>Sheppardia lowei*</i>	(Grant & Mackworth-Præd, 1941)	NE	VU	FF
No	Species	Author	Endemism	Threat status	Forest

36	<i>Sheppardia montana</i>	(Reichenow, 1907)	E	EN	FF
37	<i>Sheppardia sharpei</i>	(Shelley, 1903)	NE	LC	FF
38	<i>Sheppardia gunningi</i>	(Reichenow, 1878)	NE	VU	FF
39	<i>Stactolaema olivacea*</i>	(Shelley) 1880	NE	LC	F
40	<i>Swynnertonia swynnertoni</i>	(Shelley, 1906)	NE	VU	FF
41	<i>Turdus helleri</i>	(Mearns, 1913)	E	CR	FF
42	<i>Turdus roehli</i>	Reichenow, 1905, Bowie <i>et al.</i> , 2005	E		FF
43	<i>Xenoperdix udzungwensis</i>	Dinesen <i>et al.</i> , 1994	E	EN	FF
44	<i>Xenoperdix obscurata</i>	Fjelds� and Kiure, 2003, Bowie and Fjelds� 2005	E	EN	FF
45	<i>Zosterops silvanus</i>	Peter & Loveridge, 1935	E	EN	F
46	<i>Zosterops winifredae</i>	Sclater, 1935	E	VU	F
47	<i>Cinnyricinclus femoralis</i>	(Richmond, 1897)	NE	VU	F

Key

Endemism: E = Strictly Endemic, NE = Near Endemic (also found in at least one other African ecoregion)

Red list status: CR = Critically Endangered, DD = Data Deficient, EN = Endangered, VU = Vulnerable, LC = Least Concern, NT = Near Threatened

Forest (degree of forest dependence (FF = strictly confined to forest, F = Mainly forest but also found outside, f = forest visitor and NF = non-forest species

Some species are restricted only in a few forest reserve (< 2) within the Eastern Arc Mountains e.g. *Apalis fuscigularis*; *Artisornis moreaui*; *Hyltiota usambarae*; *Zosterops winifredae* etc (Table 6), while other species are distributed across several forest reserves of the Eastern Arc Mountains e.g. *Batis mixta* (distributed in 36 forest reserves), *Artisornis metopias* (29 forests), *Andropadus masukuensis* (30 forests) etc. (Table 8). There is no record of any endemic and/or near endemic bird species in 128 forest reserves of the Eastern Arc Mountains (Table 9). The reason is that: either no surveys have been conducted in these forest reserves or the endemic and near endemic birds are not found in those forest reserves.

3.6 Endemic, Near Endemic and Threatened Species of Birds of Eastern Arc Mountains

Forty seven (47) bird species are strictly endemic or near endemic to the Eastern Arc Mountains. These include 21 species which are strictly endemic and 26 species which are near endemic to the mountains. Based on the IUCN categories for organisms, these species can be categorized as Critically Endangered (CR), 3 species; Endangered (EN), 8 species; Vulnerable (VU), 11 species, Least Concern (LC), 21 species and four species have given no status (Table 6).

Table 7: Key Patches of the Eastern Arc Mountains in Terms of Species Attributes of Endemic and Near Endemic Bird Species.

Forest Reserve	Number of species	Species	Source
Amani Nature Reserve	7	<i>Anthreptes rubritorques</i> ; <i>Artisornis moreaui</i> ; <i>Batis mixta</i> ; <i>Bubo vosseleri</i> ; <i>Oriolus chlorocephalus</i> ; <i>Poeoptera kenricki</i> ; <i>Stactolaema olivacea</i> ;	Britton, 1980; Doody <i>et al.</i> , 2001a; Evans <i>et al.</i> , 1994; McEntee <i>et al.</i> , 2005; Database
Ambangu	5	<i>Artisornis metopias</i> , <i>Batis mixta</i> , <i>Modulatrix stictigula</i> , <i>Nectarinia moreaui</i> , <i>Turdus roehli</i>	Bowie <i>et al.</i> , 2004; Bowie <i>et al.</i> , 2005, Database
Bunduki I-III	8	<i>Andropadus masukuensis</i> , <i>Andropadus milanjensis</i> , <i>Artisornis metopias</i> , <i>Laniarius fuelleborni</i> , <i>Malaconotus alius</i> , <i>Nectarinia loveridgei</i> , <i>Scelopomycter winifredae</i> , <i>Stactolaema olivacea</i> ,	Doggart <i>et al.</i> , 2004; Stuart and Jensen, 1985; Svendsen and Hansen, 1995; Tottrup <i>et al.</i> , 2004; Database
Chome	7	<i>Andropadus masukuensis</i> , <i>Artisornis metopias</i> , <i>Batis mixta</i> , <i>Nectarinia moreaui</i> , <i>Nectarinia usambarica</i> , <i>Sheppardia sharpei</i> , <i>Zosterops winifredae</i>	Baker and Baker, 2002; Bowie <i>et al.</i> , 2004; Fjeldså and Rabol, 1995; Romdal, 1998; Database
Derema (Nguu)	8	<i>Andropadus masukuensis</i> , <i>Andropadus milanjensis</i> , <i>Sheppardia gunningi</i> , <i>Batis mixta</i> , <i>Oriolus chlorocephalus</i> , <i>Poeoptera kenricki</i> , <i>Stactolaema olivacea</i> ,	Kiure, 2005; Kiure, 2005c,
Image	1	<i>Nectarinia moreaui</i>	Bowie <i>et al.</i> , 2004
Iwonde	2	<i>Apalis chariessa</i> , <i>Bubo vosseleri</i>	Butynski and Ehardt, 2003
Iyondo	1	<i>Nectarinia rufipennis</i>	Butynski and Ehardt, 2003;
Kambai	9	<i>Andropadus milanjensis</i> , <i>Anthreptes pallidigaster</i> , <i>Anthreptes rubritorques</i> , <i>Batis mixta</i> , <i>Bubo vosseleri</i> , <i>Oriolus chlorocephalus</i> , <i>Sheppardia gunningi</i> , <i>Stactolaema olivacea</i> , <i>Swynnertonia swynnertoni</i>	Cambridge Tanzania Rainforest Project, 1994; Cunneyworth, 1996a; Evans <i>et al.</i> , 1994; Hipkiss <i>et al.</i> , 1994
Kanga	2	<i>Batis mixta</i> , <i>Oriolus chlorocephalus</i>	Fjeldså and Rabol, 1995; Fjeldså <i>et al.</i> , 2006
Kawemba	8	<i>Andropadus masukuensis</i> , <i>Apalis chapini</i> , <i>Apalis chariessa</i> , <i>Artisornis metopias</i> , <i>Batis mixta</i> , <i>Laniarius fuelleborni</i> , <i>Modulatrix stictigula</i> , <i>Poeoptera kenricki</i>	Dinesen <i>et al.</i> , 2001; Moyer, 1992;
Kiboriani	1	<i>Batis mixta</i>	Fjeldså <i>et al.</i> , 2006
Kidete	3	<i>Apalis chapini</i> , <i>Artisornis metopias</i> , <i>Laniarius fuelleborni</i>	Moyer, 1992
Kigogo	10	<i>Andropadus masukuensis</i> , <i>Andropadus milanjensis</i> , <i>Apalis chapini</i> , <i>Artisornis metopias</i> , <i>Batis mixta</i> , <i>Laniarius fuelleborni</i> , <i>Modulatrix stictigula</i> , <i>Nectarinia moreaui</i> , <i>Poeoptera kenricki</i> , <i>Sheppardia lowei</i> ,	Jensen and Brogger-Jensen, 1992; Miller <i>et al.</i> , 1989; Moyer, 1992; Database
Kilindi	6	<i>Anthreptes rubritorques</i> , <i>Sheppardia gunningi</i> , <i>Poeoptera kenricki</i> , <i>Andropadus masukuensis</i> , <i>Batis mixta</i> , <i>Nectarinia moreaui</i>	Kiure, 2005
Kiranzi Kitungulu	3	<i>Apalis chapini</i> , <i>Apalis chariessa</i> , <i>Artisornis metopias</i>	Dinesen <i>et al.</i> , 2001; Moyer, 1992
Kindoroko	1	<i>Poeoptera kenricki</i>	Fjeldså and Rabol, 1995

Kisinga-Lugalo	7	<i>Apalis chapini</i> , <i>Artisornis metopias</i> , <i>Batis mixta</i> , <i>Laniarius fuelleborni</i> , <i>Modulatrix stictigula</i> , <i>Nectarinia fuelleborni</i> , <i>Serinus melanochrous</i> ,	Bowie <i>et al.</i> , 2004; Dinesen <i>et al.</i> , 1993; Moyer, 1992
Kitemele	3	<i>Andropadus masukuensis</i> , <i>Apalis chapini</i> , <i>Laniarius fuelleborni</i> ,	Moyer, 1992
Kwamgumi	9	<i>Andropadus milanjensis</i> , <i>Anthreptes pallidigaster</i> , <i>Batis mixta</i> , <i>Bubo vosseleri</i> , <i>Oriolus chlorocephalus</i> , <i>Sheppardia gunningi</i> , <i>Sheppardia sharpei</i> , <i>Stactolaema olivacea</i> , <i>Swynnertonia swynnertoni</i> ,	Cambridge Tanzania Rainforest Project (1994); Doggart <i>et al.</i> , 1999a; Evans <i>et al.</i> , 1994; Hipkiss <i>et al.</i> , 1994
Lugoda Lutali	2	<i>Apalis chapini</i> , <i>Modulatrix stictigula</i>	Moyer, 1992
Lulanda	4	<i>Andropadus masukuensis</i> , <i>Apalis chapini</i> , <i>Batis mixta</i> , <i>Modulatrix stictigula</i>	Moyer, 1992; Database
Lutindi	10	<i>Andropadus milanjensis</i> , <i>Anthreptes pallidigaster</i> , <i>Anthreptes rubritorques</i> , <i>Artisornis metopias</i> , <i>Batis mixta</i> , <i>Modulatrix stictigula</i> , <i>Oriolus chlorocephalus</i> , <i>Ploceus nicolli</i> , <i>Poeoptera kenricki</i> , <i>Sheppardia sharpei</i>	Hunter <i>et al.</i> , 1996; Seddon, 1995; Seddon <i>et al.</i> , 1999; Database
Mafi Hill	4	<i>Andropadus masukuensis</i> , <i>Batis mixta</i> , <i>Laniarius fuelleborni</i> , <i>Modulatrix stictigula</i>	Fjeldså and Rabol, 1995; Fjeldså <i>et al.</i> , 2006
Mafwomero	6	<i>Artisornis metopias</i> , <i>Modulatrix stictigula</i> , <i>Nectarinia moreaui</i> , <i>Sheppardia aurantiithorax</i> , <i>Xenoperdix obscurata</i> , <i>Xenoperdix udzungwensis</i>	Baker and Baker, 2002; Bowie <i>et al.</i> , 2004; Doggart <i>et al.</i> , 2006
Magombero	2	<i>Nectarinia rufipennis</i> , <i>Oriolus chlorocephalus</i> ,	Jensen and Brogger-Jensen, 1992
Magrotto	4	<i>Andropadus milanjensis</i> , <i>Anthreptes pallidigaster</i> , <i>Anthreptes rubritorques</i> , <i>Oriolus chlorocephalus</i> ,	Cunneyworth, and Stubblefield, 1996a
Manga	5	<i>Anthreptes pallidigaster</i> , <i>Batis mixta</i> , <i>Oriolus chlorocephalus</i> , <i>Sheppardia gunningi</i> , <i>Stactolaema olivacea</i> ,	Doggart <i>et al.</i> , 1999c
Mangalisa	4	<i>Artisornis metopias</i> , <i>Bubo vosseleri</i> , <i>Modulatrix stictigula</i> , <i>Nectarinia moreaui</i>	Baker and Baker, 2002; Bowie <i>et al.</i> , 2004; Doggart <i>et al.</i> , 2006
Mazumbai	12	<i>Andropadus masukuensis</i> , <i>Andropadus milanjensis</i> , <i>Anthreptes rubritorques</i> , <i>Artisornis metopias</i> , <i>Batis mixta</i> , <i>Laniarius fuelleborni</i> , <i>Modulatrix stictigula</i> , <i>Nectarinia usambarica</i> , <i>Ploceus nicolli</i> , <i>Poeoptera kenricki</i> , <i>Sheppardia sharpei</i> , <i>Stactolaema olivacea</i>	Bowie <i>et al.</i> , 2004; Britton, 1980; Stuart, 1983; Database
Mkuli	7	<i>Sheppardia gunningi</i> , <i>Anthreptes rubritorques</i> , <i>Oriolus chlorocephalus</i> , <i>Stactolaema olivacea</i> , <i>Andropadus masukuensis</i> , <i>Andropadus milanjensis</i> , <i>Batis mixta</i>	Kiure, 2005c,
Mkungwe	4	<i>Andropadus masukuensis</i> , <i>Batis mixta</i> ; <i>Bufo vosseleri</i> , <i>Stactolaema olivacea</i>	Baker and Baker, 2002; Doggart <i>et al.</i> , 2004; Moyer, 1997
Mkusu	3	<i>Artisornis metopias</i> , <i>Modulatrix stictigula</i> , <i>Poeoptera kenricki</i> ,	Database

Milaliwila	1	<i>Sheppardia gunningi</i>	Doggart <i>et al.</i> , 2004
Mlinga	4	<i>Batis mixta</i> , <i>Bubo vosseleri</i> , <i>Oriolus chlorocephalus</i> , <i>Swynnertonia swynnertonii</i>	Hall <i>et al.</i> , 2002
Mtai	12	<i>Andropadus masukuensis</i> , <i>Andropadus milanjensis</i> , <i>Anthreptes pallidigaster</i> , <i>Anthreptes rubritorques</i> , <i>Batis mixta</i> ; <i>Bubo vosseleri</i> , <i>Oriolus chlorocephalus</i> , <i>Poeoptera kenricki</i> , <i>Sheppardia gunningi</i> , <i>Sheppardia sharpei</i> , <i>Stactolaema olivacea</i> , <i>Swynnertonia swynnertonii</i>	Doggart <i>et al.</i> , 1999b; Evans and Anderson, 1992; Evans and Anderson, 1993b; Evans <i>et al.</i> , 1994; Hipkiss <i>et al.</i> , 1994
Mufindi Scarp East	2	<i>Artisornis metopias</i> , <i>Sheppardia lowei</i>	Moyer, 1992
Mwala	2	<i>Andropadus masukuensis</i> , <i>Stactolaema olivacea</i>	Fjeldså and Rabol, 1995
Mwanihana	17	<i>Andropadus masukuensis</i> , <i>Andropadus milanjensis</i> , <i>Anthreptes rubritorques</i> , <i>Apalis chapini</i> , <i>Apalis chariessa</i> , <i>Arcanator orostruthus</i> , <i>Batis mixta</i> , <i>Laniarius fuelleborni</i> , <i>Modulatrix stictigula</i> , <i>Nectarinia moreaui</i> , <i>Nectarinia rufipennis</i> , <i>Oriolus chlorocephalus</i> , <i>Ploceus nicolli</i> , <i>Poeoptera kenricki</i> , <i>Sheppardia sharpei</i> , <i>Stactolaema olivacea</i> , <i>Swynnertonia swynnertonii</i>	Dinesen <i>et al.</i> , 2001; Dinesen, 1998; Jensen and Brogger-Jensen, 1992; Miller <i>et al.</i> , 1989; Stuart and Jensen, 1987;
New Dabaga	12	<i>Andropadus chlorigula</i> , <i>Andropadus masukuensis</i> , <i>Andropadus milanjensis</i> , <i>Apalis chapini</i> , <i>Artisornis metopias</i> , <i>Cisticola nigriloris</i> , <i>Laniarius fuelleborni</i> , <i>Modulatrix stictigula</i> , <i>Nectarinia moreaui</i> , <i>Ploceus nicolli</i> , <i>Serinus melanochrous</i> , <i>Serinus whytii</i>	Doody <i>et al.</i> , 2001b; Moyer, 1992;
Nguu North	5	<i>Anthreptes rubritorques</i> , <i>Bubo vosseleri</i> , <i>Sheppardia gunningi</i> , <i>Nectarinia moreaui</i> , <i>Poeoptera kenricki</i>	Seddon <i>et al.</i> , 1999; Database (as Gombero and Luago)
Nguru North	14	<i>Andropadus masukuensis</i> , <i>Andropadus milanjensis</i> , <i>Anthreptes rubritorques</i> , <i>Apalis chapini</i> , <i>Artisornis metopias</i> , <i>Batis mixta</i> , <i>Laniarius fuelleborni</i> , <i>Modulatrix stictigula</i> , <i>Nectarinia moreaui</i> , <i>Oriolus chlorocephalus</i> , <i>Poeoptera kenricki</i> , <i>Sheppardia gunningi</i> , <i>Sheppardia sharpei</i> , <i>Stactolaema olivacea</i>	Hunter <i>et al.</i> , 1996; Kiure, 2005c, Romdal, 2001; Seddon, 1995;
Nguru South	11	<i>Stactolaema olivacea</i> , <i>Andropadus chlorigula</i> , <i>Andropadus masukuensis</i> , <i>Andropadus milanjensis</i> , <i>Sheppardia sharpei</i> , <i>Modulatrix stictigula</i> , <i>Artisornis metopias</i> , <i>Batis mixta</i> , <i>Anthreptes rubritorques</i> , <i>Laniarius fülleborni</i> , <i>Oriolus chlorocephalus</i> , <i>Nectarinia moreaui</i> , <i>Apalis chapini</i>	Kiure, 2005b
Nilo	14	<i>Andropadus masukuensis</i> , <i>Andropadus milanjensis</i> , <i>Anthreptes pallidigaster</i> , <i>Anthreptes rubritorques</i> , <i>Artisornis metopias</i> , <i>Batis mixta</i> , <i>Bubo vosseleri</i> , <i>Hyliota usambarae</i> , <i>Modulatrix stictigula</i> , <i>Oriolus chlorocephalus</i> , <i>Ploceus nicolli</i> , <i>Poeoptera kenricki</i> , <i>Sheppardia sharpei</i> , <i>Stactolaema olivacea</i>	Beharrell <i>et al.</i> , 2002; Cordeiro, 1998; Hunter <i>et al.</i> , 1996; Seddon <i>et al.</i> , 1999

Njerera (Luhega)	12	<i>Andropadus masukuensis, Andropadus milanjensis, Apalis chapini, Apalis chariessa, Arcanator orostruthus, Artisornis metopias, Batis mixta, Laniarius fuelleborni, Modulatrix stictigula, Sheppardia sharpei, Stactolaema olivacea, Swynnertonia swynnertonii</i>	Moyer, C.D. (year ???); Database
Segoma	8	<i>Andropadus milanjensis, Anthreptes pallidigaster, Batis mixta, Bubo vosseleri, Oriolus chlorocephalus, Sheppardia gunningi, Stactolaema olivacea, Swynnertonia swynnertonii</i>	Cambridge Tanzania Rainforest Project (1994); Doody <i>et al.</i> , 2001c; Evans <i>et al.</i> , 1994; Hipkiss <i>et al.</i> , 1994
Semdoe	4	<i>Anthreptes pallidigaster, Anthreptes rubritorques, Sheppardia gunningi, Swynnertonia swynnertonii</i>	Cambridge Tanzania Rainforest Project (1994); Daggart <i>et al.</i> , 2001
Shume Magamba	12	<i>Andropadus masukuensis, Andropadus milanjensis, Artisornis metopias, Batis mixta, Laniarius fuelleborni, Modulatrix stictigula, Nectarinia usambarica, Ploceus nicolli, Poeoptera kenricki, Sheppardia Montana, Stactolaema olivacea, Turdus roehli</i>	Bowie <i>et al.</i> , 2004; Bowie <i>et al.</i> , 2005, Lovett and Stuart, 2001; Stuart, 1983; Database
Udzungwa National Park	20	<i>Andropadus chlorigula, Andropadus masukuensis, Anthreptes pallidigaster, Anthreptes rubritorques, Apalis chapini; Apalis chariessa, Arcanator orostruthus, Artisornis metopias, Batis mixta, Bubo vosseleri, Laniarius fuelleborni, Modulatrix stictigula, Nectarinia moreaui, Nectarinia rufipennis, Ploceus nicolli, Poeoptera kenricki, Serinus melanochrous, Sheppardia sharpei, Swynnertonia swynnertonii, Xenoperdix udzungwensis</i>	Baker and Baker, 2002; Dinesen, 1998; Fjelds� and Kiure, 2003; Miller <i>et al.</i> , 1989; Database
Udzungwa scarp	18	<i>Andropadus masukuensis, Andropadus milanjensis, Apalis chapini, Apalis chariessa, Arcanator orostruthus, Artisornis metopias, Batis mixta, Bubo vosseleri, Laniarius fuelleborni, Modulatrix stictigula, Nectarinia fuelleborni, Nectarinia rufipennis, Ploceus nicolli, Poeoptera kenricki, Sheppardia lowei, Sheppardia sharpei, Stactolaema olivacea, Swynnertonia swynnertonii</i>	Baker and Baker, 2002; Bowie <i>et al.</i> , 2004; Butynski and Ehardt, 2003; Dinesen <i>et al.</i> , 1993; Dinesen <i>et al.</i> , 2001; Dinesen, 1998; Fjelds� <i>et al.</i> , 2006; Jensen and Brogger-Jensen, 1992; Moyer, 1992; Romdal, 1998; Database
Ukami	19	<i>Andropadus chlorigula, Andropadus masukuensis, Andropadus milanjensis, Anthreptes pallidigaster, Anthreptes rubritorques, Apalis chapini, Apalis chariessa, Arcanator orostruthus, Artisornis metopias, Cisticola nigriloris, Laniarius fuelleborni, Nectarinia rufipennis, Ploceus nicolli, Poeoptera kenricki, Serinus melanochrous, Sheppardia lowei, Sheppardia sharpei, Swynnertonia swynnertonii, Xenoperdix udzungwensis</i>	Dinesen <i>et al.</i> , 2001; Doody <i>et al.</i> , 2001d

Ukwiva	9	<i>Andropadus masukuensis, Apalis chapini, Artisornis metopias, Laniarius fuelleborni, Modulatrix stictigula, Nectarinia moreau, Scepomycer winifredae, Sheppardia aurantiithorax, Sheppardia sharpei</i>	Baker and Baker, 2002; Bowie <i>et al.</i> , 2004; Doggart <i>et al.</i> , 2006; Fjeldså and Rabol, 1995;
Ulagambi	6	<i>Andropadus masukuensis, Andropadus milanjensis, Apalis chapini, Artisornis metopias, Laniarius fuelleborni, Bufo uzungwensis</i>	Moyer, 1992, Poynton <i>et al.</i> , 2005
Uluguru north	19	<i>Andropadus masukuensis, Andropadus milanjensis, Andropadus neumanii, Anthreptes rubritorques, Apalis chapini, Apalis chariessa, Artisornis metopias, Batis mixta, Bubo vosseleri, Laniarius fuelleborni, Malaconotus alius, Modulatrix stictigula, Nectarinia loveridgei, Oriolus chlorocephalus, Ploceus nicolli, Poeoptera kenricki, Scepomycer winifredae, Sheppardia sharpei, Stactolaema olivacea</i>	Baker and Baker, 2002; Bracebridge, 2005; Bracebridge <i>et al.</i> , 2005; Doggart <i>et al.</i> , 2004; Miller <i>et al.</i> , 1989; Romdal, 1998; Stuart and Jensen, 1985; Svendsen and Hansen, 1995; Database
Uluguru south	18	<i>Andropadus masukuensis, Andropadus milanjensis, Andropadus neumanii, Anthreptes rubritorques, Apalis chapini, Apalis chariessa, Artisornis metopias, Batis mixta, Laniarius fuelleborni, Malaconotus alius, Modulatrix stictigula, Nectarinia loveridgei, Oriolus chlorocephalus, Ploceus nicolli, Poeoptera kenricki, Scepomycer winifredae, Sheppardia sharpei, Stactolaema olivacea,</i>	Bowie <i>et al.</i> , 2004; Bracebridge, 2005; Bracebridge <i>et al.</i> , 2005; Doggart <i>et al.</i> , 2004; Miller <i>et al.</i> , 1989; Svendsen and Hansen, 1995; Database
West Kilombero Scarp	22	<i>Andropadus chlorigula, Andropadus masukuensis, Andropadus milanjensis, Anthreptes pallidigaster, Anthreptes rubritorques, Apalis chapini, Apalis chariessa, Arcanator orostruthus, Artisornis metopias, Cisticola nigriloris, Laniarius fuelleborni, Modulatrix stictigula, Nectarinia moreau, Nectarinia rufipennis, Ploceus nicolli, Poeoptera kenricki, Serinus melanochrous, Serinus whytii, Sheppardia lowei, Sheppardia sharpei, Swynnertonia swynnertoni, Xenoperdix uzungwensis</i>	Dinesen, 1998; Dinesen <i>et al.</i> , 2001; Doody <i>et al.</i> , 2001d;
Wotta	1	<i>Nectarinia moreau</i>	Bowie <i>et al.</i> , 2004
Bombo East I	1	<i>Batis mixta</i>	Database
Kilanga	12	<i>Andropadus masukuensis, Andropadus milanjensis, Anthreptes pallidigaster, Anthreptes rubritorques, Artisornis metopias, Batis mixta, Bubo vosseleri, Modulatrix stictigula, Oriolus chlorocephalus, Ploceus nicolli, Poeoptera kenricki, Sheppardia sharpei</i>	Hunter <i>et al.</i> , 1996; Seddon, 1995; Seddon <i>et al.</i> , 1999;
Kimboza	4	<i>Andropadus milanjensis, Oriolus chlorocephalus, Poeoptera kenricki, Stactolaema olivacea,</i>	Stuart and Jensen, 1985
Kwamarimba	7	<i>Andropadus milanjensis, Batis mixta, Bubo</i>	Cambridge Tanzania

(Marimba)		<i>vosseleri, Oriolus chlorocephalus, Sheppardia gunningi, Stactolaema olivacea, Swynnertonia swynnertonii</i>	Rainforest Project (1994); Cunneyworth, 1996b; Evans <i>et al.</i> , 1994
Mgambo	3	<i>Andropadus milanjensis, Batis mixta, Oriolus chlorocephalus,</i>	Cordeiro and Githiru, 2001; Fjeldså <i>et al.</i> , 2006; Oliver <i>et al.</i> , 2002
Taita Hills	3	<i>Apalis fuscigularis, Turdus helleri, Zosterops silvanus,</i>	Bytebier, 2001



Eastern double-collared sunbird *Nectarinia mediocris*



Variable reed frog *Hyperolius pictus*



Guttural toads *Ametophrynus gutturalis*

Table 8: Distribution of Key Bird Species Across the Forests of the Eastern Arc Mountains

Species	Number of Forests	Forests	Other localities	Source
<i>Andropadus chlorigula</i>	5	New Dabaga, Udzungwa National Park, Ukami, West Kilombero Scarp, Nguru South	Kipengere Game Reserve, Luhombero forest, Ndundulu, Nyumbanitu, Njombe forests, Rubeho Mts., Nguru Mts., Ukaguru Mts., Umalila Mts., Uvidunda Mts.	Baker and Baker, 2002; Butynski and Ehardt, 2003; Dinesen, 1998; Doody <i>et al.</i> , 2001b, Kiure, 2005b
<i>Andropadus masukuensis</i>	30	Bunduki I-III, Chome, Derema, Kawemba, Kigogo, Kilindi, Kitemele, Lulanda, Mafi Hill, Mazumbai, Mkuli, Mkungwe, Mtai, Mwala, Mwanihana, New Dabaga, Nguru North, Nilo, Njerera (Luhega), Shume Magamba, Udzungwa National Park, Udzungwa scarp, Ukami, Ukwiva, Ulagambi, Uluguru north, Uluguru south, West Kilombero Scarp, Kilanga. Nguru South	Chita, Dabaga, Luhombero, Gombero, Luago, Kilindi, Kwenhonde, Livingstone Mts forests, Rubeho Mts, Nguu Mts, Njombe Forests, Mount Rungwe, Ukaguru Mts, Umalila Mts, Uvidunda Mts, Ndundulu, Songea	Baker and Baker, 2002; Beharrell <i>et al.</i> , 2002; Bracebridge, 2005; Bracebridge <i>et al.</i> , 2005; Britton, 1980; Cordeiro, 1998; Doggart <i>et al.</i> , 1999b; Doody <i>et al.</i> , 2001b; Evans and Anderson, 1992; Evans and Anderson, 1993b; Fjeldså and Rabol, 1995; Jensen and Brogger-Jensen, 1992; Lovett and Stuart, 2001; Moyer, 1992; Moyer, C.D. (year ???); Newmark, 1991; Romdal, 1998; Romdal, 2001; Seddon, 1995; Stuart and Jensen, 1987; Stuart, 1983; Svendsen and Hansen, 1995; Kiure, 2005, Kiure, 2005b; Kiure, 2005c, Database
<i>Andropadus milanjensis</i>	28	Bunduki I-III, Derema, Kambai, Kigogo, Kwamgumi, Lutindi, Magrotto, Mazumbai, Mkuli, Mtai, Mwanihana, New Dabaga, Nguru North, Nilo, Njerera (Luhega), Segoma, Shume Magamba, Udzungwa scarp, Ukami, Ulagambi, Uluguru north, Uluguru south, West Kilombero Scarp, Kilanga, Kimboza, Nguru South, Kwamarimba (Marimba), Mgambo	Bunduki, Chita, Dabaga, Luhombero, Pugu Forest, Gombero, Kwenhonde, Mt Kilimanjaro, Ndundulu, Nyumbanitu, Pare Mts, Ukaguru mts, Udzungwa Mts, Matengo highlands, South Pare	Beharrell <i>et al.</i> , 2002; Bracebridge, 2005; Bracebridge <i>et al.</i> , 2005; Britton, 1980; Burgess and Clarke, 2000; Cambridge Tanzania Rainforest Project (1994); Cordeiro, 1994; Cunneyworth, and Stubblefield, 1996a; Doggart <i>et al.</i> , 1999b; Doody <i>et al.</i> , 2001b; Evans and Anderson, 1992; Evans and Anderson, 1993b; Jensen and Brogger-Jensen, 1992; Lovett and Stuart, 2001; Moyer, 1992; Moyer, C.D. (year ???); Newmark, 1991; Oliver <i>et al.</i> , 2002; Romdal, 1998; Romdal, 2001; Seddon, 1995; Seddon <i>et al.</i> , 1999; Stuart, 1983; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987; Svendsen and Hansen, 1995; Kiure, 2005b; Kiure, 2005c, Database
<i>Andropadus neumanii</i>	2	Uluguru North and Uluguru South		Bracebridge, 2005; Svendsen and Hansen, 1995; Database
<i>Anthreptes pallidigaster</i>	13	Kambai, Kwamgumi, Lutindi, Magrotto, Manga. Mtai, Nilo, Segoma, Semdoe, Udzungwa National Park, Ukami, West Kilombero Scarp, Kilanga	Ndundulu, Nyumbanitu, Arabuko Sokoke forest	Baker and Baker, 2002; Beharrell <i>et al.</i> , 2002; Britton, 1980; Burgess and Clarke, 2000; Cambridge Tanzania Rainforest Project (1994); Cordeiro, 1998; Cunneyworth, 1996a; Cunneyworth, and Stubblefield, 1996a; Dinesen <i>et al.</i> , 1993; Dinesen <i>et al.</i> , 2001; Dinesen, 1998; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 1999c; Doody <i>et al.</i> , 2001d; Fjeldså and Rabol, 1995; Hipkiss <i>et al.</i> , 1994; Hunter <i>et al.</i> , 1996; Miller <i>et al.</i> , 1989; Seddon, 1995; Seddon <i>et al.</i> , 1999; Stuart, 1983.

<i>Anthreptes rubritorques</i>	20	Amani Nature Reserve, Kambai, Kilindi, Lutindi, Magrotto, Mkuli, Mazumbai, Mtai, Mwanihana, Nguu North, Nguru North, Nguru South, Nilo, Semdoe, Udzungwa National Park, Ukami, Uluguru north, Uluguru south, West Kilombero Scarp, Kilanga	Gombero, Luago, Luhombero, Ndundulu, Nyumbanitu,	Baker and Baker, 2002; Beharrell <i>et al.</i> , 2002; Britton, 1980; Burgess and Clarke, 2000; Cambridge Tanzania Rainforest Project (1994); Cordeiro, 1998; Cunneyworth, and Stubblefield, 1996a; Dinesen <i>et al.</i> , 1993; Dinesen <i>et al.</i> , 2001; Dinesen, 1998; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 2001; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001d; Evans and Anderson, 1993a; Evans and Anderson, 1993b; Fjelds� and Rabol, 1995; Hunter <i>et al.</i> , 1996; Jensen and Brogger-Jensen, 1992; Miller <i>et al.</i> , 1989; Romdal, 2001; Seddon, 1995; Seddon <i>et al.</i> , 1999; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987; Stuart, 1983; Kiure, 2005, Kiure, 2005b; Kiure, 2005c,
<i>Apalis chapini</i>	21	Kawemba, Kidete, Kigogo, Kiranzi Kitungulu, Kisinga-Lugalo, Kitemele, Lugoda Lutali, Lulanda, Mwanihana, New Dabaga, Nguru North, Nguru South, Njerera (Luhega), Udzungwa National Park, Udzungwa scarp, Ukami, Ukwiva, Ulagambi, Uluguru north, Uluguru south, West Kilombero Scarp	Chita, Dabaga, Mount Rungwe, Nguru Mts, Ukaguru Mts, Uluguru Mts, Nyumbanitu, Ndundulu, Rubeho Mts, South Pare, Njombe Forests, Uvidunda Mts.	Baker and Baker, 2002; Bracebridge <i>et al.</i> , 2005; Bracebridge, 2005; Dinesen, 1998; Doody <i>et al.</i> , 2001b; Fjelds� and Rabol, 1995; Jensen and Brogger-Jensen, 1992; Moyer, 1992; Moyer, C.D. (year ???); Romdal, 1998; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987; Svendsen and Hansen, 1995; Kiure, 2005b;
<i>Apalis chariessa</i>	11	Iwonde, Kawemba, Kiranzi Kitungulu, Mwanihana, Njerera (Luhega), Udzungwa National Park, Udzungwa scarp, Ukami, Uluguru north, Uluguru south, West Kilombero Scarp	Chita, Dabaga, Mount Rungwe, Ndundulu, Nyumbanitu, Nguru mts, Ukaguru Mts, Luhombera forests, Rubeho Mts, South Pare, Njombe Forests, Uvidunda Mts.	Baker and Baker, 2002; Bracebridge <i>et al.</i> , 2005; Bracebridge, 2005; Butynski and Ehardt, 2003; Dinesen <i>et al.</i> , 1993; Dinesen <i>et al.</i> , 2001; Dinesen, 1998; Doody <i>et al.</i> , 2001d; Fjelds� and Rabol, 1995; Jensen and Brogger-Jensen, 1992; Moyer, 1992; Moyer, C.D. (year ???); Romdal, 1998; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987; Svendsen and Hansen, 1995
<i>Apalis fuscigularis</i>	1	Taita Hills		Bytebier, 2001
<i>Arcanator orostruthus</i>	6	Mwanihana, Njerera (Luhega), Udzungwa National Park, Udzungwa scarp, Ukami, West Kilombero Scarp	Chita, East Usambara Mts, Ndundulu, Nyumbanitu, Luhombero Forest, Usambara Mts	Baker and Baker, 2002; Butynski and Ehardt, 2003; Dinesen <i>et al.</i> , 1993; Dinesen <i>et al.</i> , 2001; Dinesen, 1998; Doody <i>et al.</i> , 2001d; Fjelds� and Rabol, 1995; Jensen and Brogger-Jensen, 1992; Moyer, C.D. (year ???); Newmark, 1991; Romdal, 1998; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987; Stuart, 1983

<i>Artisornis metopias</i>	29	Ambangulu, Bunduki I-III, Chome, Kawemba, Kidete, Kigogo, Kiranzi Kitungulu, Kisinga-Lugalo, Lutindi, Mafwomero, Mangalisa, Mazumbai, Mkusu, Mufindi Scarp East, New Dabaga, Nguru North, Nilo, Njerera (Luhega), Shume Magamba, Udzungwa National Park, Udzungwa scarp, Ukami, Ukwiva, Ulagambi, Uluguru north, Uluguru south, West Kilombero Scarp, Kilanga, Nguru South	Chita, Dabaga, Luhombero, Nguru Mts, Nyumbanitu, Ndundulu, Udzungwa Mts, Ukaguru Mts, East & West Usambara Mts, Uvidunda Mts, Ngurus, Matengo Highlands, Njombe Forests, South Pare Mts, Rubeho Mts, Mount Rungwe	Baker and Baker, 2002; Beharrell <i>et al.</i> , 2002; Bracebridge <i>et al.</i> , 2005; Bracebridge, 2005; Britton, 1980; Cordeiro, 1998; Doggart <i>et al.</i> , 2004; Doggart <i>et al.</i> , 2006; Doody <i>et al.</i> , 2001b; Doody <i>et al.</i> , 2001d; Evans and Anderson, 1992; Evans and Anderson, 1993b; Fjeldså and Rabol, 1995; Jensen and Brogger-Jensen, 1992; Lovett and Stuart, 2001; Moyer, 1992; Moyer, C.D. (year ???); Newmark, 1991; Romdal, 1998; Romdal, 1998; Seddon, 1995; Seddon <i>et al.</i> , 1999; Stuart and Jensen, 1985; Stuart, 1983; Svendsen and Hansen, 1995; Kiure, 2005b; Database
<i>Artisornis moreaui</i>	2	Amani Nature Reserve, Lutindi	Usambara Mts,	Baker and Baker, 2002; Cordeiro, 2004; Fjeldså and Rabol, 1995; McEntee <i>et al.</i> , 2005; Stuart and Jensen, 1985
<i>Batis mixta</i>	36	Amani Nature Reserve, Ambangulu, Chome, Derema, Kambai, Kanga, Kawemba, Kiboriani, Kigogo, Kilindi, Kisinga-Lugalo, Kwamgumi, Lulanda, Lutindi, Mafi Hill, Manga, Mazumbai, Mkuli, Mkungwe, Mlinga, Mtai, Mwanihana, Nguru North, Nilo, Njerera (Luhega), Segoma, Shume Magamba, Udzungwa National Park, Udzungwa scarp, Uluguru north, Uluguru south, Bombo East I, Kilanga, Kwamarimba (Marimba), Mgambo, Nguru South	Chita, Dabaga, Luhombero, Gendagenda, Msubugwe, Zaraninge (Kiono), Pande, Pugu, Kazimzumbwi, Mchungu, Kiwengoma, Gombero, Luago, Kwenhonde, Litipo FR, Rondo Plateau, Nyangarama Forest, Mikindani, Mitundumbea Plateau, Kitope Forest, Ruawa Plateau, Mbalawala Plateau, Ndimba Forest, Chittoa Forest, Mpanga/Kipengere Game Reserve, Mt Kilimanjaro, Nguu, Nguru, Lugalo, North and South Pare, Rubeho, Ukaguru Mts, Kipengere, Rungwe, Misuku,	Beharrell <i>et al.</i> , 2002; Bracebridge <i>et al.</i> , 2005; Bracebridge, 2005; Burgess and Clarke, 2000; Cambridge Tanzania Rainforest Project (1994); Cordeiro and Githiru, 2001; Cordeiro, 1994; Cordeiro, 1998; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 1999c; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001c; Evans and Anderson, 1992; Evans and Anderson, 1993b; Fjeldså <i>et al.</i> , 2006; Hall <i>et al.</i> , 2002; Jensen and Brogger-Jensen, 1992; Jensen <i>et al.</i> , 2005; Moyer, 1992; Moyer, 1997; Moyer, C.D. (year ???); Newmark, 1991; Romdal, 1998; Romdal, 2001; Seddon, 1995; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987; Stuart, 1983; Kiure, 2005, Kiure, 2005b; Kiure, 2005c, Database
<i>Bubo vosseleri</i>	18	Amani Nature Reserve, Iwonde, Kambai, Kwamgumi, Mangalisa, Mkungwe, Mlinga, Mtai, Nilo, Segoma, Udzungwa National Park, Udzungwa scarp, Uluguru north, Kilanga, Lutindi, Kwamarimba (Marimba), Nguru North, Nguu North	West Usambara Mts, Mtapwa, Nguru Mts, Mt Rungwe, Rubeho Mts, South Pare, Uluguru Mts	Baker and Baker, 2002; Beharrell <i>et al.</i> , 2002; Bracebridge, 2005; Burgess <i>et al.</i> , 1998; Butynski and Ehardt, 2003; Cambridge Tanzania Rainforest Project (1994); Cordeiro, 1998; Cunneyworth, 1996a; Cunneyworth, 1996b; Dinesen, 1998; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 2004; Doggart <i>et al.</i> , 2006; Doody <i>et al.</i> , 2001a; Evans and Anderson, 1992; Evans and Anderson, 1993b; Evans <i>et al.</i> , 1994; Hall <i>et al.</i> , 2002; Hipkiss <i>et al.</i> , 1994; Hunter <i>et al.</i> , 1998; Miller <i>et al.</i> , 1989; Seddon <i>et al.</i> , 1999; Seddon, 1995; Stuart and Jensen, 1985; Database
<i>Cinnyricinclus femoralis</i>	-		Arusha NP, Mt Meru, Mt Kilimanjaro, North Pare Mts, Chyulu Hills, Ngurdoto	Baker and Baker, 2002; Britton, 1980; Cordeiro, 1994

<i>Cisticola nigriloris</i>	3	New Dabaga, Ukami, West Kilombero Scarp	Kitulo Plateau, Ufipa Plateau, Njombe Forests, Rubeho Mts, Mt Rungwe, Nyumbanitu, Ndundulu, Ukaguru Mts, Udzungwa Mts, Umalila Mts, Livingstone Mountain Forests,	Baker and Baker, 2002; Doody <i>et al.</i> , 2001b; Doody <i>et al.</i> , 2001d
<i>Cisticola njombe</i>	-		Kitulo plateau, Ufipa Plateau, Mt Rungwe, Udzungwa Mts, Njombe forests, Umalila Mts	Baker and Baker, 2002
<i>Hirundo atrocaerulea</i>	-		Livingstone Mts Forests, Njombe Forests, Mt Rungwe, Udzungwa Mts, Umalila Mts.	Baker and Baker, 2002
<i>Hyltiota usambarae</i>	1	Nilo		Beharrell <i>et al.</i> , 2002
<i>Laniarius fuelleborni</i>	22	Bunduki I-III, Kawemba, Kidete, Kigogo, Kisinga-Lugalo, Kitemele, Mafi Hill, Mazumbai, Mwanihana, New Dabaga, Nguru North, Nguru South, Njerera (Luhega), Shume Magamba, Udzungwa National Park, Udzungwa scarp, Ukami, Ukwiva, Ulagambi, Uluguru north, Uluguru south, West Kilombero Scarp	Chita, Dabaga, East and West Usambara Mts, Luhombero, Mt Rungwe, Nyumbanitu, Ndundulu, Udzungwa Mts, Ukaguru Mts, Njombe Forests, Livingstone Mountain Forests, Umalila Mts, Uvidunda Mts, Rubeho Mts	Baker and Baker, 2002; Bracebridge <i>et al.</i> , 2005; Britton, 1980; Butynski and Ehardt, 2003; Dinesen, 1998; Doody <i>et al.</i> , 2001b; Doody <i>et al.</i> , 2001d; Evans and Anderson, 1992; Evans and Anderson, 1993b; Fjeldså and Rabol, 1995; Jensen and Brogger-Jensen, 1992; Lovett and Stuart, 2001; Moyer, 1992; Moyer, C.D. (year ???); Romdal, 1998; Romdal, 2001; Stuart <i>et al.</i> , 1987; Stuart, 1983; Svendsen and Hansen, 1995; Kiure, 2005b; Database
<i>Lanius marwiti</i>	-		Kitulo Plateau, Mt Rungwe, Njombe forests, Rubeho Mts, Ukaguru Mts, Udzungwa Mts, Umalila Mts.	Baker and Baker, 2002
<i>Malaconotus alius</i>	3	Bunduki I-III, Uluguru North, Uluguru South		Baker and Baker, 2002; Bracebridge <i>et al.</i> , 2005; Bracebridge, 2005; Britton, 1980; Doggart <i>et al.</i> , 2004; Miller <i>et al.</i> , 1989; Stuart and Jensen, 1985; Svendsen and Hansen, 1995
<i>Modulatrix stictigula</i>	26	Ambangu, Kawemba, Kigogo, Kisinga-Lugalo, Lugoda Lutali, Lulanda, Lutindi, Mafi Hill, Mafwomero, Mangalisa, Mazumbai, Mkusu, Mwanihana, New Dabaga, Nguru North, Nilo, Njerera (Luhega), Shume Magamba, Udzungwa National Park, Udzungwa scarp, Ukwiva, Uluguru north, Uluguru south, West Kilombero Scarp, Kilanga, Nguru South	Chita, Dabaga, Luhombero, East & West Usambara Mts, Nguru Mts, Ukaguru Mts, Umalila Mts, Rungwe Mt,	Baker and Baker, 2002; Beharrell <i>et al.</i> , 2002; Butynski and Ehardt, 2003; Bracebridge <i>et al.</i> , 2005; Bracebridge, 2005; Cordeiro, 1998; Dinesen, 1998; Doggart <i>et al.</i> , 2004; Doggart <i>et al.</i> , 2006; Doody <i>et al.</i> , 2001b; Doody <i>et al.</i> , 2001d; Evans and Anderson, 1992; Evans and Anderson, 1993b; Fjeldså and Rabol, 1995; Hunter <i>et al.</i> , 1996; Jensen and Brogger-Jensen, 1992; Lovett and Stuart, 2001; Moyer, 1992; Moyer, C.D. (year ???); Newmark, 1991; Romdal, 1998; Romdal, 2001; Seddon, 1995; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987; Stuart, 1983; Svendsen and Hansen, 1995; Kiure, 2005b; Database
<i>Nectarinia fuelleborni</i>	2	Udzungwa Scarp, Kisinga-Rugaro		Bowie <i>et al.</i> , 2004

<i>Nectarinia loveridgei</i>	3	Bunduki I-III, Uluguru North, Uluguru South		Baker and Baker, 2002; Bowie <i>et al.</i> , 2004; Bracebridge <i>et al.</i> , 2005; Bracebridge, 2005; Britton, 1980; Doggart <i>et al.</i> , 2004; Miller <i>et al.</i> , 1989; Stuart and Jensen, 1985; Tottrup <i>et al.</i> , 2004; Database
<i>Nectarinia moreaui</i>	15	Kigogo, Kilindi, Mangalisa, Mwanihana, New Dabaga, Nguru North, Nguru North, Nguru South, Udzungwa National Park, Ukwiva, West Kilombero Scarp, Wotta, Mafwomero, Chome, Image	Chita, Dabaga, Luhombero, Gombero, Mamiwa Kisara, Uvidunda Mts, Nyumbanitu, Ndundulu, Uvidunda Mts	Baker and Baker, 2002; Bowie <i>et al.</i> , 2004; Doody <i>et al.</i> , 2001b; Doody <i>et al.</i> , 2001d; Evans and Anderson, 1992; Evans and Anderson, 1993a; Evans and Anderson, 1993b; Hunter <i>et al.</i> , 1996; Jensen and Brogger-Jensen, 1992; Miller <i>et al.</i> , 1989; Romdal, 2001; Seddon, 1995; Seddon <i>et al.</i> , 1999; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987; Kiure, 2005, Kiure, 2005b; Kiure, 2005c,
<i>Nectarinia rufipennis</i>	8	Iwonde, Iyondo, Magombero, Mwanihana, Udzungwa National Park, Udzungwa scarp, Ukami, West Kilombero Scarp	Ndundulu, Nyumbanitu,	Baker and Baker, 2002; Butynski and Ehardt, 2003; Dinesen <i>et al.</i> , 1993; Dinesen <i>et al.</i> , 2001; Dinesen, 1998; Doody <i>et al.</i> , 2001d; Fjeldså and Rabøl, 1995; Jensen and Brogger-Jensen, 1992; Miller <i>et al.</i> , 1989; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987
<i>Nectarinia usambarica</i>	4	Ambangulu, Shume Magamba, Mazumbai, Chome	Taita Hills	Bowie <i>et al.</i> , 2004
<i>Oriolus chlorocephalus</i>	23	Amani Nature Reserve, Derema, Kambai, Kanga, Kwamgumi, Lutindi, Magombero, Magrotto, Manga, Mkuli, Mlinga, Mtai, Mwanihana, Nguru North, Nguru South, Nilo, Segoma, Uluguru north, Uluguru south, Kilanga, Kimboza, Kwamarimba (Marimba), Mgambo	Gombero and Luago, Rondo Plateau, Udzungwa Mts, Usambara Mts	Baker and Baker, 2002; Beharrell <i>et al.</i> , 2002; Bracebridge <i>et al.</i> , 2005; Bracebridge, 2005; Britton, 1980; Burgess and Clarke, 2000; Cambridge Tanzania Rainforest Project (1994); Cordeiro, 1998; Cordeiro, 2004; Cunneyworth, and Stubblefield, 1996a; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 1999c; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001c; Evans and Anderson, 1992; Fjeldså and Rabøl, 1995; Hall <i>et al.</i> , 2002; Jensen and Brogger-Jensen, 1992; Jensen <i>et al.</i> , 2005; Oliver <i>et al.</i> , 2002; Romdal, 1998; Romdal, 2001; Seddon, 1995; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987; Stuart, 1983; Svendsen and Hansen, 1995; Kiure, 2005b; Kiure, 2005c, Database
<i>Ploceus nicolli</i>	13	Lutindi, Mazumbai, Mwanihana, New Dabaga, Nilo, Shume Magamba, Udzungwa National Park, Udzungwa scarp, Ukami, Uluguru north, Uluguru south, West Kilombero Scarp, Kilanga	Chita, Luhombero, Ndundulu, Nyumbanitu, Rubeho Mts,	Baker and Baker, 2002; Bracebridge, 2005; Cordeiro, 1998; Dinesen <i>et al.</i> , 1993; Dinesen <i>et al.</i> , 2001; Dinesen, 1998; Doody <i>et al.</i> , 2001b; Doody <i>et al.</i> , 2001d; Fjeldså and Rabøl, 1995; Jensen and Brogger-Jensen, 1992; Lovett and Stuart, 2001; Miller <i>et al.</i> , 1989; Seddon, 1995; Seddon <i>et al.</i> , 1999; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987; Stuart, 1983;

<i>Poeoptera kenricki</i>	23	Amani Nature Reserve, Derema, Kawemba, Kigogo, Kilindi, Kindoroko, Lutindi, Mazumbai, Mkusu, Mtai, Mwanihana, Nguu North, Nguru North, Nilo, Shume Magamba, Udzungwa National Park, Udzungwa scarp, Ukami, Uluguru north, Uluguru south, West Kilombero Scarp, Kilanga, Kimboza	Chita, Gombera, Luago, North and South Pare, Mt Rungwe, Mt Kilimanjaro, Arusha National Park, Nguu Mts, Ngorongoro Conservation Area, Nyumbanitu, Ndundulu,	Baker and Baker, 2002; Beharrell <i>et al.</i> , 2002; Bracebridge <i>et al.</i> , 2005; Bracebridge, 2005; Britton, 1980; Cordeiro, 1994; Cordeiro, 1998; Doggart <i>et al.</i> , 1999b; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001d; Evans and Anderson, 1992; Evans and Anderson, 1993b; Fjelds� and Rabol, 1995; Hunter <i>et al.</i> , 1996; Jensen and Brogger-Jensen, 1992; Lovett and Stuart, 2001; Moyer, 1992; Romdal, 2001; Seddon, 1995; Seddon <i>et al.</i> , 1999; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987; Stuart, 1983; Svendsen and Hansen, 1995; Kiure, 2005, Kiure, 2005c, Database
<i>Scepomycter winifredae</i>	4	Bunduki I-III, Ukwiva, Uluguru North, Uluguru South	Mpanga/Kipengere Game Reserve, Nguru Mts, Rubeho Mts, Ukaguru Mts, Udzungwa Mts.	Baker and Baker, 2002; Bracebridge <i>et al.</i> , 2005; Britton, 1980; Doggart <i>et al.</i> , 2006; Evans and Anderson, 1993b; Stuart and Jensen, 1985; Database
<i>Serinus melanochrous</i>	5	Kisinga-Lugalo, New Dabaga, Udzungwa National Park, Ukami, West Kilombero Scarp,	Kipengere Game Reserve, Mt Rungwe, Ndundulu, Njombe forests, Kitulo Plateau, Nyumbanitu,	Baker and Baker, 2002; Dinesen <i>et al.</i> , 1993; Dinesen, 1998; Doody <i>et al.</i> , 2001b; Doody <i>et al.</i> , 2001d
<i>Serinus whytii</i>	2	New Dabaga, West Kilombero Scarp	Kipengere Game Reserve, Livingstone Mts Forests, Njombe Forests, Mt Rungwe, Udzungwa Mts, Ulamila Mts, Kitulo Plateau	Baker and Baker, 2002; Doody <i>et al.</i> , 2001b; Doody <i>et al.</i> , 2001d
<i>Sheppardia aurantiithorax</i>	2	Mafwomero, Ukwiva		Doggart <i>et al.</i> , 2006
<i>Sheppardia gunningi</i>	13	Derema, Kambai, Kilindi, Kwamgumi, Manga, Milaliwila, Mtai, Nguu North, Nguru North, Segoma, Semdoe, Kwamarimba (Marimba), Mkuli	Chitoa Plateau, Ruawa FR, Litipo FR, Rondo Plateau, Pugu Forest, Kazimzumbwi, Mchungu, Kiwengoma, Gombero, Luago, Kisarawe and Lindi Districts coastal forests, Jozani FR, Mtapwa, Pande and Gondwe Coastal Forests, Usambara Mts,	Baker and Baker, 2002; Britton, 1980; Burgess and Clarke, 2000; Cambridge Tanzania Rainforest Project (1994); Cunneyworth, 1996a; Cunneyworth, 1996b; Doggart <i>et al.</i> , 1999c; Doggart <i>et al.</i> , 2001; Doggart <i>et al.</i> , 2004; Evans <i>et al.</i> , 1994; Hipkiss <i>et al.</i> , 1994; Hunter <i>et al.</i> , 1996; Jensen <i>et al.</i> , 2005; Seddon, 1995; Seddon <i>et al.</i> , 1999; Kiure, 2005; Kiure, 2005c,
<i>Sheppardia lowei</i> *	5	Kigogo, Mufindi Scarp East, Udzungwa scarp, Ukami, West Kilombero Scarp	Chita, Dabaga, Mt Rungwe, Mdando Forest, Ndundulu, Nyumbanitu, Livingstone Mts. Forests, Ukaguru Mts, Uwenda, Njombe Forests, Mufindi	Baker and Baker, 2002; Dinesen <i>et al.</i> , 1993; Dinesen <i>et al.</i> , 2001; Doody <i>et al.</i> , 2001d; Evans and Anderson, 1993b; Fjelds� and Rabol, 1995; Jensen and Brogger-Jensen, 1992; Miller <i>et al.</i> , 1989; Moyer, 1992; Romdal, 1998; Stuart and Jensen, 1985
<i>Sheppardia montana</i>	1	Shume Magamba	East and West Usambara	Baker and Baker, 2002; Fjelds� and Rabol, 1995; Lovett and Stuart, 2001; Miller <i>et al.</i> , 1989; Stuart and Jensen, 1985; Database

<i>Sheppardia sharpei</i>	18	Chome, Kwamgumi, Lutindi, Mazumbai, Mtai, Mwanihana, Nguru North, Nilo, Njerera (Luhega), Udzungwa National Park, Udzungwa scarp, Ukami, Ukwiva, Uluguru north, Uluguru south, West Kilombero Scarp, Kilanga, Nguru South	Chita, Ndundulu, Nyumbanitu, Nguru Mts, Umalila, Mt Rungwe, Dabaga, Rubeho Mts, Livingstone Mts Forests, Njombe Forests, South Pare Mts,	Baker and Baker, 2002; Beharrell <i>et al.</i> , 2002; Bracebridge <i>et al.</i> , 2005; Bracebridge, 2005; Britton, 1980; Cordeiro, 1998; Dinesen <i>et al.</i> , 1993; Dinesen, 1998; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 2004; Doggart <i>et al.</i> , 2006; Doody <i>et al.</i> , 2001d; Evans and Anderson, 1992; Evans and Anderson, 1993b; Fjelds� and Rabol, 1995; Hunter <i>et al.</i> , 1996; Jensen and Brogger-Jensen, 1992; Moyer, 1992; Moyer, C.D. (year ???); Newmark, 1991; Romdal, 1998; Romdal, 2001; Seddon, 1995; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987; Stuart, 1983; Svendsen and Hansen, 1995; Kiure, 2005b; Database
<i>Stactolaema olivacea</i> *	22	Amani Nature Reserve, Bunduki I-III, Derema, Kambai, Kwamgumi, Manga, Mazumbai, Mkuli, Mkungwe, Mtai, Mwala, Mwanihana, Nguru North, Nilo, Njerera (Luhega), Segoma, Shume Magamba, Udzungwa scarp, Uluguru north, Uluguru south, Kimboza, Kwamarimba (Marimba)	Chita, Nguru Mts, Mahenge, Pugu Forest, Rondo, Pindi, Ngarama, Mitundumbea Plateau, Ruawa FR, Mt. Rungwe,	Beharrell <i>et al.</i> , 2002; Bracebridge <i>et al.</i> , 2005; Britton, 1980; Burgess and Clarke, 2000; Cambridge Tanzania Rainforest Project (1994); Cordeiro, 1998; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 1999b; Doggart <i>et al.</i> , 1999c; Doody <i>et al.</i> , 2001a; Doody <i>et al.</i> , 2001c; Evans and Anderson, 1992; Evans and Anderson, 1993b; Fjelds� and Rabol, 1995; Jensen and Brogger-Jensen, 1992; Jensen <i>et al.</i> , 2005; Kiure, 2005c, Lovett and Stuart, 2001; Moyer, 1997; Moyer, C.D. (year ???); Romdal, 2001; Stuart and Jensen, 1985; Stuart, 1983; Database
<i>Swynnertonia swynnertoni</i>	13	Kambai, Kwamgumi, Mlinga, Mtai, Mwanihana, Njerera (Luhega), Segoma, Semdoe, Udzungwa National Park, Udzungwa scarp, Ukami, West Kilombero Scarp, Kwamarimba (Marimba)	Chita, Luhombero, Mtapwa, Ndundulu, Nyumbanitu,	Baker and Baker, 2002; Burgess and Clarke, 2000; Butynski and Ehardt, 2003; Cambridge Tanzania Rainforest Project (1994); Cunneyworth, 1996a; Cunneyworth, 1996b; Dinesen <i>et al.</i> , 1993; Dinesen <i>et al.</i> , 2001; Dinesen, 1998; Doggart <i>et al.</i> , 1999a; Doggart <i>et al.</i> , 2001; Doody <i>et al.</i> , 2001c; Doody <i>et al.</i> , 2001d; Evans and Anderson, 1992; Evans and Anderson, 1993b; Fjelds� and Rabol, 1995; Hall <i>et al.</i> , 2002; Hipkiss <i>et al.</i> , 1994; Jensen and Brogger-Jensen, 1992; Miller <i>et al.</i> , 1989; Moyer, 1992; Moyer, C.D. (year ???); Romdal, 1998; Stuart and Jensen, 1985; Stuart <i>et al.</i> , 1987; Database
<i>Turdus helleri</i>	1	Taita Hills		Bytebier, 2001
<i>Turdus roehli</i>	2	Ambangulu, Magamba		Bowie <i>et al.</i> , 2005
<i>Xenoperdix obscurata</i>	1	Mafwomero		Doggart <i>et al.</i> , 2006
<i>Xenoperdix udzungwensis</i>	4	Mafwomero, Udzungwa National Park, Ukami, West Kilombero Scarp	Luhombero, Ndundulu, Nyumbanitu	Baker and Baker, 2002; Butynski and Ehardt, 2003; Dinesen <i>et al.</i> , 1994; Dinesen <i>et al.</i> , 2001; Dinesen, 1998; Doggart <i>et al.</i> , 2006; Doody <i>et al.</i> , 2001d; Fjelds� and Kiure, 2003; Fjelds� and Rabol, 1995
<i>Zosterops silvanus</i>	1	Taita Hills		Bytebier, 2001
<i>Zosterops winifredae</i>	1	Chome (as South Pare)		Baker and Baker, 2002; Romdal, 1998

Table 9: Forest Reserves of the Eastern Arc Mountains in Which There is No Record of Endemic or Near Endemic Bird Species.

Block	Name of Reserve	Remarks
W. Usambara	Baga -I	No record
W. Usambara	Baga -II	No record
W. Usambara	Baghoi	No record
W. Usambara	Balangai East	No record
W. Usambara	Balangai West	No record
E. Usambara	Bamba	No record
W. Usambara	Bombo Makole	No record
E. Usambara	Bombo West	No record
Udzungwa	Brook Bond	No record
W. Usambara	Bumba Mavumbi	No record
Uluguru	Bunduki IV	No record
Uluguru	Bunduki VI	No record
S. Pare	Chambogo	No record
W. Usambara	Chambogo	No record
S. Pare	Chongweni	No record
W. Usambara	Deai	No record
E. Usambara	Derema	No record
S. Pare	Dido	No record
Uluguru (outlier)	Dindili	No record
W. Usambara	Dindira	No record
Udzungwa	Duma	No record
E. Usambara	Handei	No record
Lowland	Ibiti	No record
Udzungwa	Idewa	No record
Udzungwa	Igoda	No record
Udzungwa	Ihanga	No record
Udzungwa	Ihang'ana	No record
Ukaguru	Ikwamba	No record
Rubeho	Ilole forest	No record
Udzungwa	Ipafu	No record
S. Pare	Ishereto	No record
Nguu outlier?	Jungu	No record
N. Pare	Kamwala I	No record
N. Pare	Kamwala II	No record
S. Pare	Kankoma	No record
Uluguru	Kasanga	No record

Udzungwa	Kibao	No record
Udzungwa	Kidegemsitu	No record
W. Usambara	Kifulio	No record
W. Usambara	Kikongoloi	No record
Udzunwga	Kimala	No record
S. Pare	Kiranga-Hengae	No record
W. Usambara	Kisima Gonja	No record
S. Pare	Kisiwani	No record
W. Usambara	Kitara ridge	No record
Udzunwga	Kitonga	No record
Uluguru (outlier)	Kitulang'halo	No record
Udzungwa	Kitwile	No record
N. Pare	Kiverenge	No record
E. Usambara	Kizangata	No record
E. Usambara	Kizee	No record
W. Usambara	Kwamongo	No record
E. Usambara	Kwamtili estate	No record
S. Pare	Kwamwenda	No record
W. Usambara	Kwebagu/Hebangwe	No record
Nguu	Kwediboma	No record
W. Usambara	Kwenyashu	No record
S. Pare	Kwizu	No record
Udzungwa	Kyfulilo Farm	No record
N. Pare	Lembeni Division	No record
Mahenge	Ligamba	No record
E. Usambara	Longuza Teak plantation	No record
Udzungwa	Lufuna	No record
Udzungwa	Luhunga	No record
Udzungwa	Madisi	No record
S. Pare	Maganda	No record
Nguru?	Magotwe	No record
Mahenge	Mahenge scarp	No record
W. Usambara outlier	Mahenzangulu	No record
Udzungwa	Malenda Farm	No record
Ukaguru	Mamboto	No record
Ukaguru	Mamboya	No record
S. Pare	Mambugi	No record
Ukaguru	Mamiwa Kisara North	No record
Ukaguru	Mamiwa Kisara South	No record

W. Usambara	Manka	No record
W. Usambara	Mazashai	No record
Nguu	Mbwegere	No record
E. Usambara	Mfundia	No record
W. Usambara	Migombani	No record
Malundwe	Mikumi National Park	No record
Uluguru (outlier)	Mindu	No record
N. Pare	Minja	No record
Uluguru	Mkangala	No record
Nguru	Mkindu	No record
Udzungwa	Mkongge	No record
Nguu	Mkongo	No record
Nguu	Mkuli Extn.	No record
Ukaguru?	Mlali	No record
E. Usambara	Mlungui	No record
Udzungwa	Mpanga	No record
N. Pare	Mramba	No record
Mahenge	Mselezi	No record
W. Usambara	Mtumbi	No record
Udzungwa	Mufindi Scarp West	No record
Udzungwa	Mufindi Tea	No record
Mahenge	Muhulu	No record
W. Usambara	Mweni Gombero	No record
Udzungwa	Myangala	No record
Mahenge	Myoe	No record
W. Usambara	Mzinga	No record
W. Usambara	Mzongoti	No record
Mahenge	Nawenge	No record
W. Usambara	Ndelemai	No record
W. Usambara	Ndolwa	No record
Udzungwa	Ndynduli	No record
Uluguru	Ngambaula	No record
Uluguru (outlier)	Nguru ya Ndege	No record
Udzungwa	Nyanganje	No record
Rubeho	Pala-Ulanga	No record
Nguu	Pumula	No record
Nguu outlier?	Rudewa South	No record
Mahenge	Sali	No record
W. Usambara	Sekigoto	No record

W. Usambara	Shagayu	No record
W. Usambara	Shambalai	No record
Uluguru	Shikurufumi	No record
W. Usambara	Shukilai	No record
W. Usambara	Shume Magamba Extn.	No record
W. Usambara	Tanda	No record
Uluguru	Tongeni river	No record
N. Pare	Ugweno Division	No record
Ukaguru	Uponera	No record
N. Pare	Usangi Division	No record
W. Usambara	Vugiri	No record
S. Pare	Vumari	No record
W. Usambara	Yumbu	No record
E. Usambara	Bombo East II	No record

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