



Birds at the Kafa Biosphere Reserve

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Highlights

- 178 bird species were recorded.
- 25 species are restricted to the Afrotropical Highland biome.
- Two species are restricted to the Somali-Masai biome.
- Three species are endemic (Abyssinian Longclaw (*Macronyx flavicollis*), Abyssinian Catbird (*Parophasma galinieri*) and Yellow-fronted Parrot (*Poicephalus flavifrons*)).
- Seven species are near-endemic (Wattled Ibis (*Bostrychia carunculata*), Rouget's Rail (*Rougetius rougetii*), Black-winged Lovebird (*Agapornis taranta*), White-cheeked Turaco (*Tauraco leucotis*), Banded Barbet (*Lybius undatus*), Abyssinian Slaty Flycatcher (*Melaenornis chocolatinus*) and Thick-billed Raven (*Corvus crassirostris*). Thus, the Kafa BR is characterized by a high avian endemism.
- Eight species are endangered or threatened.
- A successful brood of the endangered Wattled Crane was found in Alemgono Wetland.
- Different broadleaf forests seem to exhibit similar diversity of bird species.
- The bamboo forests seem to be home to few bird species. There are no bird species specifically adapted to this habitat.
- The African Crowned Eagle (*Stephanoaetus coronatus*), Wattled Crane (*Bugeranus carunculatus*) and Black Crowned Crane (*Balearica pavonina*) can be considered flagship species.
- The African Crowned Eagle, White-cheeked Turaco and Sharpe's Starling (*Pholia sharpii*) could be good indicators of forest conservation status. The Black Crowned Crane, Abyssinian Longclaw and Rouget's Rail could prove good indicator species for wetland conservation status. Finally, the Finfoot (*Podica senegalensis*) and Half-collared Kingfisher (*Alcedo semitorquata*) could prove good indicator species for river conservation status. These species should be monitored regularly.

1. Introduction

The importance of the Kafa BR for birdlife is clear. The Bonga Forest, part of the BR, is classified as an Important Bird Area in Ethiopia (Fishpool & Evans 2001). Knowledge of the distribution and the abundance of bird species in Ethiopia had increased greatly over the last few years. The general checklist of Ethiopian birds published by Ash & Atkins (2009) provides a good overview, though only on a broad scale. It is based on observations by the authors and on previous publications (e.g., Urban & Brown 1971). However, the scale of the maps is very small, which limits its applicability to specific area such as the Kafa BR. Thus, an up-to-

date annotated checklist of birds within the Kafa BR is urgently needed. This would allow an assessment of the abundance of different bird populations and possible threats to specific species. This, in turn, would form the basis for conservation plans and protective measures for these species.

Therefore, we set out to compile a list of bird species occurring in the Kafa BR and determine their habitat requirements and possible threats. We also developed protective measures for endangered species and selected species for regular monitoring.

2. Material and Methods

2.1 Study area

Our study area includes most of the sampling sites selected for the biodiversity assessment (BA: bamboo forest, BK: Boka Forest (and wetland), KO: Komba Forest, AG: Alemgono, SHO: Shoriri, GO-wet: Gojeb Wetlands, GO-riv: Gojeb River/floodplain forest, BO: Bodinga Forest, KDA-GH: KDA Guesthouse (including

the area around the Bonga Waterfall). We also visited a wetland near Bonga (Yeba Wetland) and the gallery forest and savannah near the bridge over the Gojeb River on the road from Bonga to Jimma to search for key species like cranes.

Table 1: Study sites

Area	Site	Code	Habitat	Alt. (m a.s.l)	Lat.	Long.
BONGA	Bamboo Forest	BA	Bamboo forest dominated by <i>Arundinaria alpina</i>	2617	7°15'35" N	36°27'50" E
BONGA	Komba Forest	KO	Montane forests	2079	7°18'01" N	36°05'27" E
BOGINDA	Gojeb Wetland	GO-wet	Wetland	1564	7°33'14" N	36°02'58" E
BOGINDA	Doma Wetland	GO-wet	Wetland	1568	7°31'59" N	35°54'59" E
BOGINDA	Gojeb Wetland	GO-riv	River	1553	7°33'17" N	36°03'34" E
BOGINDA	Gojeb Wetland	GO-riv	Gallery forest	1571	7°32'15" N	36°02'47" E
BONGA	Boka Forest and wetland	BK	Montane forest. wetland	2425	7°17'52" N	36°22'70" E
BONGA	Alemgono Wetland	AG	Wetland	1723	7°21'43" N	36°13'24" E
BONGA	Shorori Wetland	SHO	Wetland	1615	7°21'31" N	36°12'23" E
BONGA	Yeba Wetland		Farmland. wetland	1961	7°12'56" N	36°13'04" E
BONGA	KDA Guesthouse	KDA-GH	Village. farmland	1746	7°15'01" N	36°15'15" E
BOGINDA	Path to the hot springs	BO	Montane forest	1813	7°26'55" N	36°10'56" E
BOGINDA	Medabo Forest Road	BO	Montane forest	2082	7°30'28" N	36°03'51" E
ADIYO	Gojeb/Amiyo		River. savanna	1331	7°25'29" N	36°22'24" E

2.2 Sampling methods

The bird survey was carried out from December 3rd to 11th, 2014. Bird species were determined using the guide by Redman et al. (2009). During the assessment, bird species were counted in different habitats such as montane forests, wetlands, agricultural areas and villages of the Kafa BR. As the habitats were very diverse, the line transect method and timed fixed point observations were used (Sutherland et al. 2005). In forests with restricted access, small paths, game trails or sometimes even streets were taken as transect trails. Most wetland counts were made from the higher-lying peripheral areas of the wetlands. Whenever possible we entered the wetlands, too. Start points and end-points were recorded using GPS data.

Surveys were conducted between 6 am and 7 pm. Birds were located by visual encounter using binoculars (10 x 40) and a scope (40-60x) or by means of their distinctive

songs or calls. Unknown songs and calls were checked using a tape recorder. Reference songs and calls were taken from www.xeno-canto.org in advance. In a few cases, we checked the identity of a hidden bird specimen via voice playback.

2.3 Data analysis

Information on bird abundance is normally derived from the number of specimens counted over a period of several days or even weeks (Sutherland et al. 2005). As we visited most of our study sites only once, no reliable estimate is possible for methodological reasons. In addition, our study took place in the dry season, so we can draw no conclusions about the situation in other seasons. Nevertheless, we considered species common if they were counted at several study sites or 10 or more specimens were found at a single study site.

3. Results

3.1 Forest sites

We studied five different forest sites: the bamboo forest (Table 2), the Boka Forest (Table 3), the Komba Forest (Table 4), the Boginda Forest (Table 5, 6) and the gallery forest at the Gojeb River (Table 7). Bird species characteristic to forests were also monitored in wetlands adjacent to and influenced by upland forest surroundings, e.g., Alemgono and Shorori. Some bird species were typically found in larger forested habitats, including the African Crowned Eagle, African Olive Pigeon, White-cheeked Turaco, Silvery-cheeked Hornbill, Robin-chat, Brown Woodland Warbler, African Paradise Flycatcher, Brown-throated Wattle-eye, Abyssinian Catbird, Ethiopian Boubou, and Sharpe's Starling.

3.1.1 Bamboo Forest (BA)

- 1) **Date:** 06.12.2014
GPS position: 07° 15' 35" N / 036° 27' 50" E, 2617 m a.s.l.
Habitat: bamboo forest, pasture/meadow, nearby bamboo forest
- 2) **Date:** 06.12.2014
GPS position: 07° 18' 46" N / 036° 04' 50" E 1852 m a.s.l.
Habitat: forest with 80-100% bamboo
- 3) **Date:** 06.12.2014
GPS position: 07° 14' 36" N / 036° 27' 23" E - 07° 14' 36" N / 036° 27' 34" E

Table 2: List of birds recorded at the Bamboo Forest (BA)

Common name	Scientific name	Specimens counted	Remarks
African Black Duck	<i>Anas sparsa</i>	1	On the river, observed by Holger Meinig
Augur Buzzard	<i>Buteo augur</i>	1	
African Crowned Eagle	<i>Stephanoaetus coronatus</i>	1	
Chestnut-naped Francolin	<i>Pternistis castaneicollis</i>	1, v	
African Olive Pigeon	<i>Columba arquatrix</i>	2	
White-cheeked Turaco	<i>Tauraco leucotis</i>	2, v	
Black Saw-wing	<i>Psalidoprogne pristopectera</i>	>30	
Grey Wagtail	<i>Motacilla cinerea</i>	2	
Common Bulbul	<i>Pycnonotus barbatus</i>	>10	
Rüppell's Robin-chat	<i>Cossypha semirufa</i>	1	
Willow Warbler	<i>Phylloscopus trochilus</i>	1, v	

Common name	Scientific name	Specimens counted	Remarks
Common Chiffchaff	<i>Phylloscopus collybita</i>	3, v	
Brown Woodland Warbler	<i>Phylloscopus umbrovirens</i>	3, v	
Blackcap	<i>Sylvia atricapilla</i>	1	
Cinnamon Bracken Warbler	<i>Bradypterus cinnamomeus</i>	2	
Abyssinian Catbird	<i>Parophasma galinieri</i>	1	
Abyssinian Black-headed Oriole	<i>Oriolus monacha</i>	2, v	
Thick-billed Raven	<i>Corvus crassirostris</i>	5	
Sharpe's Starling	<i>Pholia sharpii</i>	v	
Tacazze Sunbird	<i>Nectarinia tacazze</i>	3	
Variable Sunbird	<i>Cinnyris venustus ssp. fazoqlensis</i>	4	
Montane White-eye	<i>Zosterops polioastrus</i>	2, v	
Yellow-fronted Canary	<i>Serinus mozambicus</i>	4	
African Citril	<i>Serinus citrinelloides</i>	>6	
Streaky Seedeater	<i>Serinus striolatus</i>	2	

3.1.2 Boka Forest (BK) and adjacent wetlands

1) **Date:** 06.12.2014 1500 - 1800

GPS position: 07° 17' 52" N / 036° 22' 70" E 2425 m a.s.l.

Habitat: wetland, edge of forest, forest

2) **Date:** 07.12.2014 0700 - 0930

GPS position: 07° 17' 40" N / 036 22'34" E - 07° 17' 54" N / 036° 22' 47" E 2477 m a.s.l.

Habitat: wetland, edge of forest, forest

Table 3: List of birds recorded at Boka Forest (BK) and adjacent wetlands

Common name	Scientific name	Specimens counted	Remarks
Hadada Ibis	<i>Bostrychia hagedash</i>	2	Feeding in the wetland
Yellow-billed Kite	<i>Milvus aegyptius</i>	2	
African Goshawk	<i>Accipiter tachiro</i>	1	Flying
African Crowned Eagle	<i>Stephanoaetus coronatus</i>	2	Aerial display
Augur Buzzard	<i>Buteo augur</i>	3	1 immat.
Common Buzzard	<i>Buteo Buteo</i>	1	
Chestnut-naped Francolin	<i>Francolinus castaneicollis</i>	3	
Rouget's Rail	<i>Rougetius rougetii</i>	>10	Foraging in the grazed wetland near the road
Dusky Turtle-dove	<i>Streptopelia lugens</i>	1	In trees at the edge of the wetland
African Olive Pigeon	<i>Colomba arquatrix</i>	5	In the canopy
White-cheeked Turaco	<i>Tauraco leucotis</i>	2	In the forest
African Emerald Cuckoo	<i>Chrysococcyx cupreus</i>	1	In the forest
Abyssinian Nightjar	<i>Caprimulgus poliocephalus</i>	x	Heard at night by Ingrid Kaipf
Silvery-cheeked Hornbill	<i>Bycanistes brevis</i>	2	In the forest
Yellow-fronted Tinkerbird	<i>Pogoniulus chrysoconus</i>	1	In the forest
Grey-headed Woodpecker	<i>Dendropicos spodocephalus</i>	1	
Black Saw-wing	<i>Psalidoprogne pristoptera</i>	>10	
Grey Wagtail	<i>Motacilla cinerea</i>	1	
Mountain Wagtail	<i>Motacilla clara</i>	2	

Common name	Scientific name	Specimens counted	Remarks
Common Bulbul	<i>Pycnonotus barbatus</i> ssp. <i>schoanus</i>	>20	Mostly at the forest edge
Rüppell's Robin-chat	<i>Cossypha semirufa</i>	1	
Stonechat	<i>Saxicola torquatus</i>	2	
Pied Wheatear	<i>Oenanthe pleschanka</i>	1	
Mountain Thrush	<i>Turdus olivaceus</i>	>10	In the forest and at the forest edge
Cinnamon Bracken Warbler	<i>Bradypterus cinnamomeus</i>	6	At the forest edge
Common Chiffchaff	<i>Phylloscopus collybita</i>	5	At the forest edge
Willow Warbler	<i>Phylloscopus trochilus</i>	1	
Brown Woodland Warbler	<i>Phylloscopus umbrovirens</i>	2	In the forest
Blackcap	<i>Sylvia atricapilla</i>	1	
Singing Cisticola	<i>Cisticola cantans</i>	1	At the forest edge
Tawny-flanked Prinia	<i>Prinia subflava</i>	1	
African Dusky Flycatcher	<i>Muscicapa adusta</i>	2	
Brown-throated Wattle-eye	<i>Platysteira cyanea</i>	1	In the forest
Ethiopian Boubou	<i>Laniarius aethiopicus</i>	4	At the forest edge
Abyssinian Black-headed Oriole	<i>Oriolus monacha</i>	5	In the forest
Thick-billed Raven	<i>Corvus crassirostris</i>	>10	Flying over the wetland
Sharpe's Starling	<i>Pholia sharpii</i>	>10	3-4 flocks in the forest canopy
Abyssinian Catbird	<i>Parophasma galinieri</i>	6	in the forest
Tacazze Sunbird	<i>Nectarinia tacazze</i>	>10	
Variable Sunbird	<i>Cinnyris venustus</i> ssp. <i>Fazoqlensis</i>	>20	In flowers at the forest edge and in trees in the grazed wetland
Mountain White-eye	<i>Zosterops poliogastrus</i>	>10	
Common Waxbill	<i>Estrilda astrild</i>	6	In farmland
Bronze Mannikin	<i>Lonchura cucullate</i>	8-10	
Black-and-white Mannikin	<i>Lonchura bicolor</i>	4	At the edge of the wetland
Yellow-fronted Canary	<i>Serinus mozambicus</i>	2	In trees at the edge of the wetland
African Citril	<i>Serinus citrinelloides</i>	2	In trees at the edge of the wetland
Streaky Seedeater	<i>Serinus striolatus</i>	4	In trees at the edge of the wetland

3.1.3 Komba Forest (KO)

- 1) **Date:** 04.12.2014 0655-0755
GPS position: 07° 18' 18" N / 036° 05' 22" E, 2038 m a.s.l.
Habitat: montane forest, 100% canopy closing
- 2) **Date:** 04.12.2014 0830-0930
GPS position: 07° 18' 01" N / 036° 09' 09" E, 2079 m a.s.l.
Habitat: montane forest, 100 - 20% canopy closing
- 3) **Date:** 12.12.2014 0730-0830
GPS position: 07° 18' 46" N / 036° 04' 50" E, 1852 m a.s.l.
Habitat: edge of montane forest, big, old trees
- 4) **Date:** 05.12.2014 0800-1000
GPS position: 07° 09' 50" N / 036° 03' 47" E, 1902 m a.s.l.
Habitat: montane forest

Table 4: List of birds recorded at Komba Forest (KO)

Common name	Scientific name	Specimens counted	Remarks
Woolly-necked Stork	<i>Ciconia episcopus</i>		3
Hadada Ibis	<i>Bostrychia hagedash</i>		3
Yellow-billed Kite	<i>Milvus aegyptius</i>		3
Long-crested Eagle	<i>Lophaetus occipitalis</i>	1	4
African Crowned Eagle	<i>Stephanoaetus coronatus</i>	1	1
Scally Francolin	<i>Francolinus squamatus</i>	1	
Tambourine Dove	<i>Turtur tympanistria</i>		1,2,3
Blue-spotted Wood-dove	<i>Turtur afer</i>		1,2
Red-eyed Dove	<i>Streptopelia semitorquata</i>		3
Black-winged Lovebird	<i>Agapornis taranta</i>	(heard)	1
White-cheeked Turaco	<i>Tauraco leucotis</i>		1,2,3,4
Klaas's Cuckoo	<i>Chrysococcyx klaas</i>	1	3
Silvery-cheeked Hornbill	<i>Bycanistes brevis</i>		1,2,3
Crowned Hornbill	<i>Tockus alboterminatus</i>	3	3
Broad-billed Roller	<i>Coracias glaucurus</i>	1	4
Yellow-fronted Tinkerbird	<i>Pogoniulus chrysoconus</i>		1,2,3
Grey-headed Woodpecker	<i>Dendropicos spodocephalus</i>	1	3
Grey Wagtail	<i>Motacilla cinerea</i>	2	3
Mountain Wagtail	<i>Motacilla clara</i>	2	3
Grey Cuckooshrike	<i>Coracina caesia</i>	1	4
Common Bulbul	<i>Pycnonotus barbatus</i> ssp. <i>schoanus</i>		1,2,3
Red-capped Robin-chat	<i>Cossypha natalensis</i>	3	1,4
Mountain Thrush	<i>Turdus olivaceus</i>		4
Common Chiffchaff	<i>Phylloscopus collybita</i>		1,2,3,4
Brown Woodland Warbler	<i>Phylloscopus umbrovirens</i>		1,4
Singing Cisticola	<i>Cisticola cantans</i>	1	3
Grey-backed Camaroptera	<i>Camaroptera brachyura</i>		1,2,3
African Dusky Flycatcher	<i>Muscicapa adusta</i>		3
African Paradise Flycatcher	<i>Terpsiphone viridis</i>		1,2,3,4
Brown-throated Wattle-eye	<i>Platysteira cyanea</i>	3	4
Northern Puffback	<i>Dryoscopus gambensis</i>		2
Ethiopian Boubou	<i>Laniarius aethiopicus</i>		1,2,3,4
Abyssinian Black-headed Oriole	<i>Oriolus monacha</i>		1,2,3,4
Sharpe's Starling	<i>Pholia sharpii</i>		1
Variable Sunbird	<i>Cinnyris venustus</i> ssp. <i>fazoqlensis</i>		3
Mountain White-eye	<i>Zosterops poliogastrus</i>		3
Red-cheeked Cordon-bleu	<i>Uraeginthus bengalus</i>		1,2,3
Yellow-bellied Waxbill	<i>Coccygia quartinia</i>	2	3
Black-and-white Mannikin	<i>Lonchura bicolor</i>	2	3
Streaky Seedeater	<i>Serinus striolatus</i>		1,2

3.1.4 Boginda (BO)

Boginda path to the hot springs

1) **Date:** 09.12.2014 0715-1045

GPS positions along a transect: 07° 26' 25" N / 036° 10' 56" E – 07° 26' 55" N / 036° 10' 56" E – 07° 28' 04" N / 036° 10' 58" E, 1813 m – 1746 m – 1463 m a.s.l.

Habitat: montane forest, clearing

Table 5: List of birds recorded at Boginda (BO) on the path to the hot springs

Common name	Scientific name	Specimens counted	Remarks
Woolly-necked Stork	<i>Ciconia episcopus</i>	1	Flying, near hot springs
Long-crested Eagle	<i>Lophaetus occipitalis</i>	1	Near the clearing
Black Crowned Crane	<i>Balearica pavonina</i>	3	Flying
Tambourine Dove	<i>Turtur tympanistria</i>	>10	Seems to be more common than other species below this in the table
Blue-spotted Wood-dove	<i>Turtur afer</i>	>10	
Red-eyed Dove	<i>Streptopelia semitorquata</i>	~10	Particularly in degraded forest and near clearings
White-cheeked Turaco	<i>Tauraco leucotis</i>	>10	Regularly heard and seen
Blue-headed Coucal	<i>Centropus monachus</i>	2	
Speckled Mousebird	<i>Colius striatus</i>	>10	Some groups
Silvery-cheeked Hornbill	<i>Bycanistes brevis</i>	8-10	Pairs
Crowned Hornbill	<i>Tockus alboterminatus</i>	5	1 group
Yellow-fronted Tinkerbird	<i>Pogoniulus chrysoconus</i>	>10	Regularly heard
Cardinal Woodpecker	<i>Dendropicos fuscescens</i>	1	
Common Bulbul	<i>Pycnonotus barbatus</i> ssp. <i>schoanus</i>	>10	Regularly heard and seen
Rüppell's Robin-chat	<i>Cossypha semirufa</i>	2	
Snowy-headed Robin-chat	<i>Cossypha niveicapilla</i>	1	
Mountain Thrush	<i>Turdus olivaceus</i>	>10	Especially in fruiting trees
Cinnamon Bracken Warbler	<i>Bradypterus cinnamomeus</i>	<10	Singing
Brown Woodland Warbler	<i>Phylloscopus umbrovirens</i>	4-5	Singing
Blackcap	<i>Sylvia atricapilla</i>	8-10	In fruiting trees
Grey-backed Camaroptera	<i>Camaroptera brachyura</i>	>10	Regularly heard
African Dusky Flycatcher	<i>Muscicapa adusta</i>	~10	Regularly seen
African Paradise Flycatcher	<i>Terpsiphone viridis</i>		Regularly heard and seen
Brown-throated Wattle-eye	<i>Platysteira cyanea</i>	3	Heard
Black-headed Batis	<i>Batis minor</i>	2	1 pair near hot springs
White-rumped Babbler	<i>Turdoides leucopygia</i> ssp. <i>omoensis</i>	>10	1 flock
Northern Puffback	<i>Dryoscopus gambensis</i>	3	Heard and seen
Ethiopian Boubou	<i>Laniarius aethiopicus</i>	>10	Regularly heard and seen
Abyssinian Black-headed Oriole	<i>Oriolus monacha</i>	~8	Heard and seen
Thick-billed Raven	<i>Corvus crassirostris</i>	4	Near hot springs
Sharpe's Starling	<i>Pholia sharpii</i>	4-6	Heard
Abyssinian Catbird	<i>Parophasma galinieri</i>	2	Heard
Scarlet-chested Sunbird	<i>Chalcomitra senegalensis</i>	1	
Tacazze Sunbird	<i>Nectarinia tacazze</i>	2	
Variable Sunbird	<i>Cinnyris venustus</i> ssp. <i>fazoqlensis</i>	>10	Regularly where there were flowers
Mountain White-eye	<i>Zosterops poliogastrus</i>	>10	3-4 flocks

Boginda (BO) Medabo Forest Road

1) **Date:** 11.12.2014 0645-0945**GPS positions along a transect:** 07° 30' 31" N / 036° 03' 28" E – 07° 30' 28" N / 036° 03' 51" E – 07° 30' 35" N / 036° 03' 42" E – 07° 31' 11" N / 036° 03' 29" E, 2125 m – 2082 m – 2030 m – 1888 m a.s.l.**Habitat:** montane forest, roadside**Table 6:** List of birds found at BO Medabo Forest Road

Common name	Scientific name	Specimens counted	Remarks
Rufous-breasted Sparrowhawk	<i>Accipiter rufiventris</i>	1	
Tambourine Dove	<i>Turtur tympanistria</i>	>10	Singing, most commonly heard
Blue-spotted Wood-dove	<i>Turtur afer</i>	~10	Singing, common but fewer than Tambourine Dove
Red-eyed Dove	<i>Streptopelia semitorquata</i>	<10	Singing
African Olive Pigeon	<i>Colomba arquatrix</i>	5-8	1 singing
White-cheeked Turaco	<i>Tauraco leucotis</i>	>10	Regularly seen or heard along the transect
Speckled Mousebird	<i>Colius striatus</i>	~5	1 group seen
Silvery-cheeked Hornbill	<i>Bycanistes brevis</i>	10	5 pairs, very noisy, defending territories?
Crowned Hornbill	<i>Tockus alboterminatus</i>	6	3 pairs?
Little Bee-eater	<i>Merops pusillus</i>	8-10	1 flock
European Bee-eater	<i>Merops apiaster</i>	>10	Flocks heard
Yellow-fronted Tinkerbird	<i>Pogoniulus chrysoconus</i>	>10	Regularly heard along the transect
Black Saw-wing	<i>Psalidoprogne pristoptera</i>	>10	Flocks
Grey Wagtail	<i>Motacilla cinerea</i>	2	1 pair on the road
Mountain Wagtail	<i>Motacilla clara</i>	2	1 pair on the road
Grey Cuckooshrike	<i>Coracina caesia</i>	1	Seen here in 2011
Common Bulbul	<i>Pycnonotus barbatus</i> ssp. <i>schoanus</i>	>10	Regularly seen and heard along the transect
Rüppell's Robin-chat	<i>Cossypha semirufa</i>	2	Not singing
Mountain Thrush	<i>Turdus olivaceus</i>	~8	3 on the road, ~5 feeding on a fruiting tree
Cinnamon Bracken Warbler	<i>Bradypterus cinnamomeus</i>	>10	Regularly heard in the roadside vegetation
Common Chiffchaff	<i>Phylloscopus collybita</i>	4-6	Seen, not singing
Willow Warbler	<i>Phylloscopus trochilus</i>	1	1 singing, birds we could see were chiffchaffs
Brown Woodland Warbler	<i>Phylloscopus umbrovirens</i>	8-10	Singing
Blackcap	<i>Sylvia atricapilla</i>	3	Seen
Grey-backed Camaroptera	<i>Camaroptera brachyura</i>	>10	Regularly heard in the roadside vegetation
Northern Black Flycatcher	<i>Melaenornis edolioides</i>	2	Individual birds
African Dusky Flycatcher	<i>Muscicapa adusta</i>	7	Regularly seen
African Paradise Flycatcher	<i>Terpsiphone viridis</i>	~8-10	Regularly seen or heard along the transect
Brown-throated Wattle-eye	<i>Platysteira cyanea</i>	2	2 heard
Northern Puffback	<i>Dryoscopus gambensis</i>	4-6	1 group

Common name	Scientific name	Specimens counted	Remarks
Ethiopian Boubou	<i>Laniarius aethiopicus</i>	>10	Regularly seen or heard along the transect
Abyssinian Black-headed Oriole	<i>Oriolus monacha</i>	10	Regularly seen or heard along the transect
Slender-billed Starling	<i>Onychognathus tenuirostris</i>	>20	3 flocks flying
Stuhlmann's Starling	<i>Poeoptera stuhlmanni</i>	4	1 pair flying
Sharpe's Starling	<i>Pholia sharpii</i>	>5	1 singing, some more calling
Abyssinian Catbird	<i>Parophasma galinieri</i>	3	3 singing, none seen
Variable Sunbird	<i>Cinnyris venustus ssp. fazoqlensis</i>	6-8	Seen at flowering plants
Mountain White-eye	<i>Zosterops polioastrus</i>	>10	2 groups

3.1.5 Gojeb Gallery Forest (GO-riv)

1) **Date:** 11.12.2014 1340-1540

GPS position: 07° 32' 15" N / 036° 03' 56" E – 07° 32' 15" N / 036° 02' 47" E – 07° 32' 16" N / 036° 02' 36" E – 07° 33' 32" N / 036° 02' 33" E 1586 m – 1571 m – 1564 m a.s.l.

Habitat: gallery forest, river

Table 7: List of birds found at Gojeb Gallery Forest (GO-riv)

Common name	Scientific name	Specimens counted	Remarks
Little Grebe	<i>Tachybaptus ruficollis</i>	2	
Hamerkop	<i>Scopus umbretta</i>	1	Flying
Woolly-necked Stork	<i>Ciconia episcopus</i>	1	
Western Banded Snake-eagle	<i>Circaetus cinerascens</i>	1	
Chestnut-naped Francolin	<i>Fringilla castaneicollis</i>	1	Heard in the wetland
Tambourine Dove	<i>Turtur tympanistria</i>	4	Seen and heard in the forest
Red-eyed Dove	<i>Streptopelia semitorquata</i>	>5	Seen and heard at the forest edge
Striped Kingfisher	<i>Halcyon chelicuti</i>	4	In a clearing in the forest
African Pygmy Kingfisher	<i>Ceyx pictus</i>	1	
Yellow-fronted Tinkerbird	<i>Pogoniulus chrysoconus</i>	>6	Heard
Barn Swallow	<i>Hirundo rustica</i>	5-8	
Black Saw-wing	<i>Psalidoprogne pristopectera</i>	>10	
Common Bulbul	<i>Pycnonotus barbatus ssp. schoanus</i>	>8	In the forest
Mountain Thrush	<i>Turdus olivaceus</i>	2	Seen at the forest edge
Cinnamon Bracken Warbler	<i>Bradypterus cinnamomeus</i>	1	Heard at the forest edge
Grey-backed Camaroptera	<i>Camaroptera brachyura</i>	3	Seen and heard at the forest edge
African Dusky Flycatcher	<i>Muscicapa adusta</i>	3	Seen at the forest edge
African Paradise Flycatcher	<i>Terpsiphone viridis</i>	2	In the forest
Ethiopian Boubou	<i>Laniarius aethiopicus</i>	x	Heard in the forest
Thick-billed Raven	<i>Corvus crassirostris</i>	x	Flying
Red-winged Starling	<i>Onychognathus morio</i>	1	
Copper Sunbird	<i>Cinnyris cupreus</i>	1	
Olive Sunbird	<i>Cinnyris olivaceus</i>	1	
Variable Sunbird	<i>Cinnyris venustus ssp. fazoqlensis</i>	4-5	In flowers at the forest edge and in the forest
Mountain White-eye	<i>Zosterops polioastrus</i>	6-8	
Fan-tailed Widowbird	<i>Euplectes axillaris</i>	~10	1 flock

3.2 Wetlands

Five wetlands were monitored: Boka (Table 3), Alemgono (Table 8), Gojeb (Table 9, 10), Shoriri (Table 11) and Yeba (Table 12). The bird species of Boka, Shoriri and Yeba Wetlands were particularly influenced by their surroundings; thus, there are a lot of species on these lists which are typical for forested areas. Some of the wetlands are dominated by dense plant stands of reed and *Cyperus latifolius*, others are surrounded by short grazed meadow-like areas. Key wetland species include the Black Crowned and Wattled Cranes, Rouget's Rail and the Red-collared and Fan-tailed Widowbirds.

3.2.1 Alemgono (AG)

- 1) **Date:** 04.12.2014 1600-1820
GPS position: 07° 21' 47" N / 036° 13' 05" E 1723 m a.s.l.
Habitat: farmland to wetland transitional area, wetland: dense stands of *Cyperus latifolius* surrounded by heavily grazed areas
- 2) **Date:** 07.12.2014 1820-1900
GPS position: 07° 21' 43" N / 036° 13' 24" E 1720 m a.s.l.
- 3) **Date:** 12.12.2014 11.00 – 12.30 h
GPS position: 07° 21' 47" N / 036° 13' 05" E 1723 m a.s.l.

Table 8: List of birds found at Alemgono Wetland (AG)

Common name	Scientific name	Specimens counted	Remarks
Hadada Ibis	<i>Bostrychia hagedash</i>	8	Feeding in the wetland
Yellow-billed Kite	<i>Milvus aegyptius</i>	2	
Western Marsh-harrier	<i>Circus aeruginosus</i>	1	
African Goshawk	<i>Accipiter tachiro</i>	1	Flying overhead with prey
Augur Buzzard	<i>Buteo augur</i>	1	
Greater Spotted Eagle	<i>Aquila clanga</i>	1	Flying overhead
Long-crested Eagle	<i>Lophaetus occipitalis</i>	1	
Helmeted Guineafowl	<i>Numida meleagris</i>	~20	At the edge of farmland
Chestnut-naped Francolin	<i>Francolinus castaneicollis</i>	1	Heard in the wetland
Black Crowned Crane	<i>Balearica pavonina</i>	10	
Wattled Crane	<i>Bugeranus carunculatus</i>	5	2 pairs, 1 juv.
Rouget's Rail	<i>Rougetius rougetii</i>	2-4	Heard
Black Crake	<i>Amaurornis flavirostra</i>	1	In dense <i>Cyperus</i> vegetation
African Wattled Lapwing	<i>Vanellus senegallus</i>	2	In heavily grazed areas
Wood Sandpiper	<i>Tringa glareola</i>	2	
Green Sandpiper	<i>Tringa ochropus</i>	1	
Common Snipe	<i>Gallinago gallinago</i>	1	
Tambourine Dove	<i>Turtur tympanistria</i>	2-4	Heard at the edge of farmland
Blue-spotted Wood-dove	<i>Turtur afer</i>	1	Heard at the edge of farmland
Red-eyed Dove	<i>Streptopelia semitorquata</i>	~8	heard at the edge of farmland
Blue-headed Coucal	<i>Centropus monachus</i>	3	Seen in the wetland
Abyssinian Nightjar	<i>Caprimulgus poliocephalus</i>	3	Heard after sunset from surrounding farmland
Speckled Mousebird	<i>Colius striatus</i>	6-8	Seen at the edge of farmland
Little Bee-eater	<i>Merops pusillus</i>	>40	At the edge of farmland
White-throated Bee-eater	<i>Merops albicollis</i>	2	
Silvery-cheeked Hornbill	<i>Bycanistes brevis</i>	2	At the edge of farmland
Yellow-fronted Tinkerbird	<i>Pogoniulus chrysoconus</i>	2	Heard at the edge of farmland

Common name	Scientific name	Specimens counted	Remarks
Double-toothed Barbet	<i>Lybius bidentatus</i>	1	Seen at the edge of farmland
Barn Swallow	<i>Hirundo rustica</i>	>40	
Common Sand Martin	<i>Riparia riparia</i>	>10	
Banded Martin	<i>Riparia cincta</i>	1	
Yellow Wagtail	<i>Motacilla flava</i>	~10	In heavily grazed areas
Abyssinian Longclaw	<i>Macronyx flavicollis</i>	10	5 pairs, in heavily grazed areas
African/Grassland Pipit	<i>Anthus cinnamomeus</i>	2	In heavily grazed areas
Red-throated Pipit	<i>Anthus cervinus</i>	>100	Migrating flock, in heavily grazed areas
Common Bulbul	<i>Pycnonotus barbatus</i> ssp. <i>Schoanus</i>	>10	Seen and heard at the edge of farmland
Whinchat	<i>Saxicola rubetra</i>	2	In <i>Cyperus</i> stands
Common Stonechat	<i>Saxicola torquatus</i>	1	In <i>Cyperus</i> stands
Grey-backed Camaroptera	<i>Camaroptera brachyura</i>	2	Heard at the edge of farmland
White-rumped Babbler	<i>Turdoides leucopygia</i> ssp. <i>Omoensis</i>	>4	1 group, at the edge of farmland
Greater Blue-eared Starling	<i>Lamprotornis chalybaeus</i>	2	In heavily grazed areas
Variable Sunbird	<i>Cinnyris venustus</i> ssp. <i>fazoqlensis</i>	5	In flowers at the edge of farmland
Ethiopian Boubou	<i>Laniarius aethiopicus</i>	2	
Common Fiscal	<i>Lanius collaris</i>	6-8	In heavily grazed areas
Thick-billed Raven	<i>Corvus crassirostris</i>	2	
Swainson's Sparrow	<i>Passer swainsonii</i>	<10	At the edge of farmland
Village Weaver	<i>Ploceus cucullatus</i>	>20	At the edge of farmland
Red-collared Widowbird	<i>Euplectes ardens</i>	>20	2 flocks, roosting in <i>Cyperus</i> stands
Fan-tailed Widowbird	<i>Euplectes axillaris</i>	50-100	1 flock, roosting in <i>Cyperus</i> stands
Black-and-white Mannikin	<i>Lonchura bicolor</i>	2	
Bronze Mannikin	<i>Lonchura cucullata</i>	>10	At the edge of farmland

3.2.2 Gojeb Wetland

Gojeb Wetland (GO-wet)

1) **Date:** 10.12.2014 0630-1145

GPS position: 07° 33' 26" N / 036° 03' 58" E – 07° 33' 14" N / 036° 02' 58" E – 07° 33' 31" N / 036° 02' 42" E – 07° 33' 32" N / 036° 02' 33" E 1555 m – 1564 m – 1561 m a.s.l.

Habitat: wetland, edge of forest

Table 9: List of birds found at Gojeb Wetland (GO-wet)

Common name	Scientific name	Specimens counted	Remarks
Black-headed Heron	<i>Ardea melanocephala</i>	2	
Hamerkop	<i>Scopus umbretta</i>	1	Flying
Woolly-necked Stork	<i>Ciconia episcopus</i>	4	
Hadada Ibis	<i>Bostrychia hagedash</i>	8-10	Feeding in the wetland
Yellow-billed Kite	<i>Milvus aegyptius</i>	5	
African Fish-eagle	<i>Haliaeetus vocifer</i>	1	Heard from Gojeb River
Hooded Vulture	<i>Necrosyrtes monachus</i>	2	Attracted by offal
Lappet-faced Vulture	<i>Torgos tracheliotus</i>	1	Attracted by offal
White-headed Vulture	<i>Trigonoceps occipitalis</i>	1	Attracted by offal
White-backed Vulture	<i>Gyps africanus</i>	14	Attracted by offal
Rüppell's Vulture	<i>Gyps rueppellii</i>	1	Attracted by offal
African Crowned Eagle	<i>Stephanoaetus coronatus</i>	1	Flying
Augur Buzzard	<i>Buteo augur</i>	2	
Common Quail	<i>Coturnix coturnix</i>	1	
Chestnut-naped Francolin	<i>Francolinus castaneicollis</i>	>4	Heard in the wetland
Black Crowned Crane	<i>Balearica pavonina</i>	>50	3 pairs with 1 juvenile each, a flock of >40
Rouget's Rail	<i>Rougetius rougetii</i>	1-2	Heard
Green Sandpiper	<i>Tringa ochropus</i>	1	
Tambourine Dove	<i>Turtur tympanistria</i>	>6	Seen and heard at the forest edge
Blue-spotted Wood-dove	<i>Turtur afer</i>	x	Seen and heard at the forest edge
Speckled Pigeon	<i>Columba guinea</i>	2	
Red-eyed Dove	<i>Streptopelia semitorquata</i>	>8	Seen and heard at the forest edge
Blue-headed Coucal	<i>Centropus monachus</i>	2	Seen at the forest edge
Speckled Mousebird	<i>Colius striatus</i>	>10	Seen at the forest edge
African Pygmy Kingfisher	<i>Ceyx pictus</i>	1	
European Bee-eater	<i>Merops apiaster</i>	x	Migrating flock
Yellow-fronted Tinkerbird	<i>Pogoniulus chrysoconus</i>	>6	Seen and heard at the forest edge
Barn Swallow	<i>Hirundo rustica</i>	>40	
Yellow Wagtail	<i>Motacilla flava</i>	>30	
Abyssinian Longclaw	<i>Macronyx flavicollis</i>	2	1 pair
Red-throated Pipit	<i>Anthus cervinus</i>	>100	Migrating flock
Common Bulbul	<i>Pycnonotus barbatus ssp. schoanus</i>	>10	Seen and heard at the forest edge
Whinchat	<i>Saxicola rubetra</i>	2	
Mountain Thrush	<i>Turdus olivaceus</i>	2	Seen at the forest edge

Common name	Scientific name	Specimens counted	Remarks
Cinnamon Bracken Warbler	<i>Bradypterus cinnamomeus</i>	>8	Seen and heard at the forest edge
Common Chiffchaff	<i>Phylloscopus collybita</i>	3	Seen and heard at the forest edge
Stout Cisticola	<i>Cisticola robustus</i>	4	2 pairs
Grey-backed Camaroptera	<i>Camaroptera brachyura</i>	>8	Seen and heard at the edge of forest
African Dusky Flycatcher	<i>Muscicapa adusta</i>		Seen at the forest edge
Brown-throated Wattle-eye	<i>Platysteira cyanea</i>	1	Heard at the forest edge
Black-headed Batis	<i>Batis minor</i>	2	Seen at the forest edge
White-rumped Babbler	<i>Turdoides leucopygia omoensis</i>	>4	1 group
Northern Puffback	<i>Dryoscopus gambensis</i>	2	Heard at the forest edge
Ethiopian Boubou	<i>Laniarius aethiopicus</i>	6-8	Heard at the forest edge
Cape Crow	<i>Corvus capensis</i>	4	Feeding in the wetland
Thick-billed Raven	<i>Corvus crassirostris</i>	6-8	Flying
Greater Blue-eared Starling	<i>Lamprotornis chalybaeus</i>	>100	3-4 flocks
Red-billed oxpecker	<i>Buphagus erythrorhynchus</i>	5-7	Accompanying cattle
Copper Sunbird	<i>Cinnyris cupreus</i>	2	
Variable Sunbird	<i>Cinnyris venustus ssp. fazoqlensis</i>	4-5	In flowers at the forest edge
Common Fiscal	<i>Lanius collaris</i>	1	
Red-collared Widowbird	<i>Euplectes ardens</i>	>10	2 flocks
Fan-tailed Widowbird	<i>Euplectes axillaris</i>	>20	1 flock
Bronze Mannikin	<i>Lonchura cucullata</i>	>10	2 flocks
Pin-tailed Wydah	<i>Vidua macroura</i>	1	1 male
Village Indigobird	<i>Vidua chalybeata</i>	1	1 male
African Citril	<i>Serinus citrinelloides</i>	3	

Doma Wetland as part of Gojeb Wetland

1) **Date:** 10.12.2014 1530-1700

GPS position: 07° 32' 41" N / 035° 54' 41" E – 07° 31' 59" N / 035° 54' 59" E 1592 m – 1568 m a.s.l.

Habitat: wetland, transitional area from farmland and degraded forest to wetland

Table 10: List of birds found at Doma Wetland as part of Gojeb Wetland

Common name	Scientific name	Specimens counted	Remarks
Black-headed Heron	<i>Ardea melanocephala</i>	1	
Woolly-necked Stork	<i>Ciconia episcopus</i>	12	1 flock of 8 specimens
White Stork	<i>Ciconia ciconia</i>	1	
Yellow-billed Kite	<i>Milvus aegyptius</i>	2	
European Honey-buzzard	<i>Pernis apivorus</i>	1	
Western Marsh-harrier	<i>Circus aeruginosus</i>	3	2 males, 1 female
Augur Buzzard	<i>Buteo augur</i>	2	
Common Kestrel	<i>Falco tinnunculus</i>	2	
Black Crowned Crane	<i>Balearica pavonina</i>	5	1 pair with 1 juv.
African Wattled Lapwing	<i>Vanellus senegallus</i>	2	
Blue-spotted Wood-dove	<i>Turtur afer</i>	3	Seen and heard in the BR's transition zone

Common name	Scientific name	Specimens counted	Remarks
Red-eyed Dove	<i>Streptopelia semitorquata</i>	>5	Seen and heard in the BR's transition zone
Speckled Mousebird	<i>Colius striatus</i>	6	Seen in the BR's transition zone
European Bee-eater	<i>Merops apiaster</i>	x	Migrating flock heard
White-throated Bee-eater	<i>Merops albicollis</i>	>4	In the transitional area
Yellow-fronted Tinkerbird	<i>Pogoniulus chrysoconus</i>	3	Seen and heard in the BR's transition zone
Cardinal Woodpecker	<i>Dendropicos fuscescens</i>	1	In the BR's transition zone
Barn Swallow	<i>Hirundo rustica</i>	>10	
Yellow Wagtail	<i>Motacilla flava</i>	>8	
Grassland Pipit	<i>Anthus cinnamomeus</i>	2	
Red-throated Pipit	<i>Anthus cervinus</i>	>20	Migrating flock
Common Bulbul	<i>Pycnonotus barbatus schoanus</i>	5	Seen and heard in the BR's transition zone
African Stonechat	<i>Saxicola torquatus</i> ssp. <i>Albofasciatus</i>	2	
Whinchat	<i>Saxicola rubetra</i>	1	
Blackcap	<i>Sylvia atricapilla</i>	1	In the BR's transition zone
Ethiopian Cisticola	<i>Cisticola lugubris</i>	2	1 pair
Grey-backed Camaroptera	<i>Camaroptera brachyura</i>	4	Seen and heard in the BR's transition zone
African Dusky Flycatcher	<i>Muscicapa adusta</i>	3	Seen in the BR's transition zone
Ethiopian Boubou	<i>Laniarius aethiopicus</i>	4	Heard in the transitional area
Copper Sunbird	<i>Cinnyris cupreus</i>	1	In the BR's transition zone
Variable Sunbird	<i>Cinnyris venustus</i> ssp. <i>fazoqlensis</i>	4	In flowers in the BR's transition zone
Swainson's Sparrow	<i>Passer swainsonii</i>	>5	In the BR's transition zone
Village Weaver	<i>Ploceus cucullatus</i>	6	In the BR's transition zone
Red-collared Widowbird	<i>Euplectes ardens</i>	>10	2 flocks
Bronze Mannikin	<i>Lonchura cucullata</i>	>10	2 flocks
Pin-tailed Wydah	<i>Vidua macroura</i>	1	1 male
Streaky Seedeater	<i>Serinus striolatus</i>	2	In the BR's transition zone

3.2.3 Shoriri Wetland (SHO)

1) **Date:** 05.12.2014 1545-1710

GPS positions along a transect: 07° 21' 49" N / 036° 12' 55"

E – 07° 21' 31" N / 036° 12' 23" E 1725 m – 1615 m a.s.l.

Habitat: degraded montane forest in transition zone
farmland to wetland, wetland

Table 11: List of birds found at Shoriri Wetland (SHO)

Common name	Scientific name	Specimens counted	Remarks
Hadada Ibis	<i>Bostrychia hagedash</i>	8	At the edge of the wetland
Yellow-billed Kite	<i>Milvus aegyptius</i>	3	
African Green-pigeon	<i>Treron calvus</i>	12	In a fruiting tree
Tambourine Dove	<i>Turtur tympanistria</i>	5	
Red-eyed Dove	<i>Streptopelia semitorquata</i>	3	
White-cheeked Turaco	<i>Tauraco leucotis</i>	8	Heard and seen in the forest
Speckled Mousebird	<i>Colius striatus</i>	2	
Striped Kingfisher	<i>Halcyon chelicuti</i>	1	
European Bee-eater	<i>Merops apiaster</i>	1	Flying overhead
Silvery-cheeked Hornbill	<i>Bycanistes brevis</i>	2	In a fruiting tree
Yellow-fronted Tinkerbird	<i>Pogoniulus chrysoconus</i>	1	Heard
Mountain Wagtail	<i>Motacilla clara</i>	6	
Common Bulbul	<i>Pycnonotus barbatus schoanus</i>	1	Heard and seen
Rüppell's Robin-Chat	<i>Cossypha semirufa</i>	1	
Mountain Thrush	<i>Turdus olivaceus</i>	1	In a fruiting tree
Tawny-flanked Prinia	<i>Prinia subflava</i>	1	
Brown Woodland Warbler	<i>Phylloscopus umbrovirens</i>	4	Heard
African Paradise Flycatcher	<i>Terpsiphone viridis</i>	3	Heard
Northern Puffback	<i>Dryoscopus gambensis</i>	3	Courting
Ethiopian Boubou	<i>Laniarius aethiopicus</i>	6	Heard
Abyssinian Black-headed Oriole	<i>Oriolus monacha</i>	4	Heard
Violet-backed Starling	<i>Cinnyricinclus leucogaster</i>	2	In a fruiting tree
Slender-billed Starling	<i>Onychognathus tenuirostris</i>	4	
Variable Sunbird	<i>Cinnyris venustus ssp. fazoqlensis</i>	3	Heard and seen
Red-collared Widowbird	<i>Euplectes ardens</i>	8	In the wetland
Fan-tailed Widowbird	<i>Euplectes axillaris</i>	9	In the wetland

3.2.4 Yeba Wetland (Bonga)

1) **Date:** 07.12.2014 1515-1700

GPS positions along a transect: 07° 12' 58" N / 036° 13' 23"

E – 07° 12' 56" N / 036° 13' 04" E 2026 m – 1961 m a.s.l.

Habitat: transition zone farmland to wetland, wetland

Table 12: List of birds found at Yeba Wetland (Bonga)

Common name	Scientific name	Specimens counted	Remarks
Augur Buzzard	<i>Buteo augur</i>	1	Flying
White-backed Vulture	<i>Gyps africanus</i>	1	
Tambourine Dove	<i>Turtur tympanistria</i>	4-5	Heard
White-cheeked Turaco	<i>Tauraco leucotis</i>	3	Heard and seen in the forest
Speckled Mousebird	<i>Colius striatus</i>	>5	
Silvery-cheeked Hornbill	<i>Bycanistes brevis</i>	4	2 pairs
Yellow-fronted Tinkerbird	<i>Pogoniulus chrysoconus</i>	2-4	Heard
Banded Barbet	<i>Lybius undatus</i>	1	
Lesser Honeyguide	<i>Indicator minor</i>	1	
Black Saw-wing	<i>Psalidoprogne pristopectera</i>	>10	1 flock in the farmland
Common Bulbul	<i>Pycnonotus barbatus ssp. schoanus</i>	>6	Heard and seen
Rüppell's Robin-Chat	<i>Cossypha semirufa</i>	1	
Mountain Thrush	<i>Turdus olivaceus</i>	3	
African Yellow Warbler	<i>Chloropeta natalensis</i>	1	1 seen
Common Chiffchaff	<i>Phylloscopus collybita</i>	3	Seen
Singing Cisticola	<i>Cisticola cantans</i>	1	
Tawny-flanked Prinia	<i>Prinia subflava</i>	1	
Grey-backed Camaroptera	<i>Camaroptera brachyura</i>	2-3	Heard
Abyssinian Slaty Flycatcher	<i>Melaenornis chocolatinus</i>	1	
African Dusky Flycatcher	<i>Muscicapa adusta</i>	4	Seen
Ethiopian Boubou	<i>Laniarius aethiopicus</i>	2	
Variable Sunbird	<i>Cinnyris venustus ssp. fazoqlensis</i>	>5	Heard and seen
Thick-billed Raven	<i>Corvus crassirostris</i>	4	Flying
Baglafaecht Weaver	<i>Ploceus baglafaecht</i>	5	In the farmland
Bronze Mannikin	<i>Lonchura cucullata</i>	8	
Pin-tailed Wydah	<i>Vidua macroura</i>	3	2 males, 1 female in the farmland
Yellow-fronted Canary	<i>Serinus mozambicus</i>	2	
African Citril	<i>Serinus citrinelloides</i>	4	In the farmland
Streaky Seedeater	<i>Serinus striolatus</i>	2	In the farmland

3.2.5 Gojeb River (GO-riv)

The Gojeb River is a unique habitat, which we assessed in the area surrounding the bridge near Medabo. We found Little Grebe, Reed Cormorant, African Fish-eagle, African Finfoot, Half-collared Kingfisher, Malachite Kingfisher, Pied Kingfisher, Giant Kingfisher and Mountain Wagtail, which are all species bound to open water.

1) **Date:** 09.12.2014 1730-1830
GPS position: 07° 33' 17" N / 036° 03' 34" E 1,553 m a.s.l.
Habitat: river, degraded gallery forest

2) **Date:** 10.12.2014 0750-900

3) **Date:** 11.12.2014 1020-1030

Table 13: List of birds found at Gojeb River (GO-riv), Gojeb Bridge

Common name	Scientific name	Specimens counted	Remarks
Little Grebe	<i>Tachybaptus ruficollis</i>	1	1 / on the river
Reed Cormorant	<i>Phalacrocorax africanus</i>	1	1 / flying
Striated Heron	<i>Butorides striata</i>	1	2 / in riparian vegetation
Black-headed Heron	<i>Ardea melanocephala</i>	1	2 / overflying
Hadada Ibis	<i>Bostrychia hagedash</i>	2	1
Yellow-billed Kite	<i>Milvus aegyptius</i>	2	2 / overflying
African Fish-eagle	<i>Haliaeetus vocifer</i>	2	1,3
White-headed Vulture	<i>Trigonoceps occipitalis</i>	2	3 / overflying
White-backed Vulture	<i>Gyps africanus</i>	3	3 / overflying
Augur Buzzard	<i>Buteo augur</i>	1	1 / overflying
Black Crowned Crane	<i>Balearica pavonina</i>	3	1 / flying
African Finfoot	<i>Podica senegalensis</i>	1	1 / 1 female
Common Sandpiper	<i>Actitis hypoleucos</i>	1	2
Blue-spotted Wood-dove	<i>Turtur afer</i>	2	3 / heard
Speckled Pigeon	<i>Columba guinea</i>	2	1 / at the bridge
Red-eyed Dove	<i>Streptopelia semitorquata</i>	3-4	1 / calling nearby
Blue-headed Coucal	<i>Centropus monachus</i>	1	1
Little Swift	<i>Apus affinis</i>	>10	1 / 1 flock overflying
Malachite Kingfisher	<i>Alcedo cristata</i>	1	
Half-collared Kingfisher	<i>Alcedo semitorquata</i>	2	1,2,3 / presumably breeding
Pied Kingfisher	<i>Ceryle rudis</i>	3	2
Giant Kingfisher	<i>Megaceryle maxima</i>	2	
Banded Martin	<i>Riparia cincta</i>	2-3	2
Lesser Striped Swallow	<i>Cecropis abyssinica</i>	>10	2,3 / 1 roosting flock
Wire-tailed Swallow	<i>Hirundo smithii</i>	4-5	1,2
Barn Swallow	<i>Hirundo rustica</i>	>20	1
Black Saw-wing	<i>Psalidoprogne pristoptera</i>	>10	3
Mountain Wagtail	<i>Motacilla clara</i>	2	1,2 / resident
Common Bulbul	<i>Pycnonotus barbatus</i> ssp. <i>schoanus</i>	3-5	1 / heard and seen in nearby vegetation
Grey-backed Camaroptera	<i>Camaroptera brachyura</i>	2	2 / heard in nearby vegetation
White-rumped Babbler	<i>Turdoides leucopygia</i> ssp. <i>omoensis</i>	5	1,2 / 1 flock
Ethiopian Boubou	<i>Laniarius aethiopicus</i>	2	1 / heard in nearby vegetation
Variable Sunbird	<i>Cinnyris venustus</i> ssp. <i>fazoqlensis</i>	2-4	1 / in nearby flowers
Mountain White-eye	<i>Zosterops poliogastrus</i>	5-6	2 / heard and seen in nearby vegetation

Common name	Scientific name	Specimens counted	Remarks
Swainson's Sparrow	<i>Passer swainsonii</i>	3	2
Black-and-white Mannikin	<i>Lonchura bicolor</i>	2	2 / seen in nearby vegetation

3.2.6 Gojeb River and savannah near Amiyo

We studied an area at the bridge over the Gojeb River, at the road from Bonga to Jimma which was marked as savannah, a habitat otherwise very rare in the biosphere reserve. As the so called savannah was not grazed by cattle, the plant stand was very dense and high. We also include species we found in the nearby village, in the gallery forest and at the river itself in our bird list (Table 14).

1) **Date:** 08.12.2014 0730-1200

GPS position: 07° 25' 04" N / 036° 22' 26" (1286 m a.s.l., village) – 07° 25' 32" N / 036° 22' 31" E (1297 m a.s.l., river) – 07° 25' 29" N / 036° 22' 24" E (1331 m a.s.l., savannah) – 07° 25' 47" N / 036° 22' 27" (1357 m a.s.l., savannah) – 07° 24' 49" N / 036° 22' 31" E (1313 m a.s.l., old bridge)

Habitat: village, farmland, gallery forest (shrub), savannah (high vegetation), river

Table 14: List of birds found at Gojeb River near Amiyo

Common name	Scientific name	Specimens counted	Remarks
Reed Cormorant	<i>Phalacrocorax africanus</i>	2	At the river
Black-headed Heron	<i>Ardea melanocephala</i>	1	Near the village
Wattled Ibis	<i>Bostrychia carunculata</i>	3	Near the village
Hadada Ibis	<i>Bostrychia hagedash</i>	3	Near the village
Yellow-billed Kite	<i>Milvus aegyptius</i>	5	
African Fish-eagle	<i>Haliaeetus vocifer</i>	1	Heard, at the river
Hooded Vulture	<i>Necrosyrtes monachus</i>	4	Near the village
White-backed Vulture	<i>Gyps africanus</i>	6	Near the village
Bateleur	<i>Terathopius ecaudatus</i>	1	Flying, over savannah
Common Sandpiper	<i>Actitis hypoleucos</i>	1	At the river
Green Sandpiper	<i>Tringa ochropus</i>	2	At the river
Blue-spotted Wood-dove	<i>Turtur afer</i>	3-5	
Speckled Pigeon	<i>Columba guinea</i>	4-6	
Red-eyed Dove	<i>Streptopelia semitorquata</i>	>8	
Lemon Dove	<i>Aplopelia larvata</i>	1	Near the old bridge
Little Swift	<i>Apus affinis</i>	>10	Near the old bridge
Speckled Mousebird	<i>Colius striatus</i>	>10	
Striped Kingfisher	<i>Halcyon chelicuti</i>	2	Eucalyptus forest near village
White-throated Bee-eater	<i>Merops albicollis</i>	3	Eucalyptus forest near village
Silvery-cheeked Hornbill	<i>Bycanistes brevis</i>	2	Fruiting trees in the savannah
Wire-tailed Swallow	<i>Hirundo smithii</i>	8-10	Near the old bridge
Barn Swallow	<i>Hirundo rustica</i>	>15	Near the old bridge
Black Saw-wing	<i>Psalidoprogne pristopectera</i>	>10	Near the old bridge
African Pied Wagtail	<i>Motacilla aguimp</i>	2	At the river
Common Bulbul	<i>Pycnonotus barbatus ssp. schoanus</i>	>10	
African Thrush	<i>Turdus pelios</i>	2	
Mountain Thrush	<i>Turdus olivaceus</i>	>8	

Common name	Scientific name	Specimens counted	Remarks
Blackcap	<i>Sylvia atricapilla</i>	3	Fruiting trees in the savannah
Grey-backed Camaroptera	<i>Camaroptera brachyura</i>	>5	
Northern Black Flycatcher	<i>Melaenornis edolioides</i>	4	Eucalyptus forest near village
African Paradise Flycatcher	<i>Terpsiphone viridis</i>	2	
Mountain White-eye	<i>Zosterops poliogastrus</i>	5-6	
Abyssinian White-eye	<i>Zosterops abyssinicus</i>	4	
Ethiopian Boubou	<i>Laniarius aethiopicus</i>	5	
Abyssinian Black-headed Oriole	<i>Oriolus monacha</i>	2	
Violet-backed Starling	<i>Cinnyricinclus leucogaster</i>	5	Fruiting trees in the savannah
Variable Sunbird	<i>Cinnyris venustus ssp. fazoqlensis</i>	>10	
Swainson's Sparrow	<i>Passer swainsonii</i>	>10	
Baglafaecht Weaver	<i>Ploceus baglafaecht</i>	>10	
Village Weaver	<i>Ploceus cucullatus</i>	4-6	
Red-billed Firefinch	<i>Lagonosticta senegala</i>	>10	
Bronze Mannikin	<i>Lonchura cucullata</i>	>10	
Pin-tailed Wydah	<i>Vidua macroura</i>	2	
Village Indigobird	<i>Vidua chalybeata</i>	3	
African Citril	<i>Serinus citrinelloides</i>	2	Savannah
White-rumped Seedeater	<i>Serinus leucopygius</i>	2	Savannah

3.2.7 KDA Guesthouse and surroundings

As birds are highly mobile, our bird list for the KDA compound includes species we monitored in the surrounding villages and even those we found at the waterfall in Bonga (Table 14, 15). We think that this compilation gives a more accurate idea of the birds which may be expected in and around the KDA compound. As the environment is dominated by trees, we found many species bound to forest.

KDA Guesthouse

1) **Date:** 02.12.2014 – 11.12.2014

GPS position: 07° 15' 01" N / 036° 15' 15" E 1746 m a.s.l.

Habitat: gardens, hedges and wooded areas in the nearby village

Table 15: List of birds found at the KDA Guesthouse (KDA-GH)

Common name	Scientific name	Specimens counted	Remarks
Hadada Ibis	<i>Bostrychia hagedash</i>	2-4	Flying
Yellow-billed Kite	<i>Milvus aegyptius</i>	4-6	Flying
Hooded Vulture	<i>Necrosyrtes monachus</i>	2-3	Flying
Augur Buzzard	<i>Buteo augur</i>	1	Flying
Tambourine Dove	<i>Turtur tympanistria</i>	>5	Seen and heard in wooded area of the village
Blue-spotted Wood-dove	<i>Turtur afer</i>	2-3	Seen and heard in wooded area of the village
Red-eyed Dove	<i>Streptopelia semitorquata</i>	>5	Seen and heard
White-cheeked Turaco	<i>Tauraco leucotis</i>	2-4	In wooded areas
African Emerald Cuckoo	<i>Chrysococcyx cupreus</i>	1	In wooded area of the village
Abyssinian/Montane Nightjar	<i>Caprimulgus poliocephalus</i>	1	Seen at night

Common name	Scientific name	Specimens counted	Remarks
Speckled Mousebird	<i>Colius striatus</i>	6-8	In shrub and hedges in the compound and village
African Pygmy kingfisher	<i>Ceyx pictus</i>	1	By a creek in the village
Little Bee-eater	<i>Merops pusillus</i>	2-4	In the village
Silvery-cheeked Hornbill	<i>Bycanistes brevis</i>	2	Flying
Yellow-fronted Tinkerbird	<i>Pogoniulus chrysoconus</i>	2-4	Seen and heard
Banded Barbet	<i>Lybius undatus</i>	1	Seen
Lesser Honeyguide	<i>Indicator minor</i>	1	Seen and heard in the compound
Barn Swallow	<i>Hirundo rustica</i>	>10	Flocks
Black Saw-wing	<i>Psalidoprogne pristopectera</i>	>10	Flocks
Common Bulbul	<i>Pycnonotus barbatus ssp. schoanus</i>	>6	Seen and heard in the compound and village
Rüppell's Robin-chat	<i>Cossypha semirufa</i>	3-4	In shrub and hedges in the compound and village
Mountain Thrush	<i>Turdus olivaceus</i>	3-4	In shrub, hedges and wooded areas in the compound and village
Common Chiffchaff	<i>Phylloscopus collybita</i>	2-3	Seen and heard
Blackcap	<i>Sylvia atricapilla</i>	1-2	
Tawny-flanked Prinia	<i>Prinia subflava</i>	1	In a hedge of the village
Grey-backed Camaroptera	<i>Camaroptera brachyura</i>	2-4	In shrub and hedges in the compound and village
African Dusky Flycatcher	<i>Muscicapa adusta</i>	4-6	In the compound and village
African Paradise Flycatcher	<i>Terpsiphone viridis</i>	2-3	In wooded area of the village
Black-headed Batis	<i>Batis minor</i>	1	
Ethiopian Boubou	<i>Laniarius aethiopicus</i>	2-4	Heard in wooded areas of the village
Abyssinian Black-headed Oriole	<i>Oriolus monacha</i>	2-4	In wooded areas of the village
Thick-billed Raven	<i>Corvus crassirostris</i>	4	Flying
Tacazze Sunbird	<i>Nectarinia tacazze</i>	2-4	In flowers in the compound and village
Scarlet-chested Sunbird	<i>Chalcomitra senegalensis</i>	2	In flowers in the compound and village
Copper Sunbird	<i>Cinnyris cupreus</i>	2-3	In flowers in the compound and village
Variable Sunbird	<i>Cinnyris venustus fazoqlensis</i>	>10	In flowers in the compound and village
Mountain White-eye	<i>Zosterops poliogastrus</i>	>6	In flowers in the compound and village
Violet-backed Starling	<i>Cinnyricinclus leucogaster</i>	2	In fruiting trees
Swainson's Sparrow	<i>Passer swainsonii</i>	>4	In shrub and hedges in the compound and village
Baglafaecht Weaver	<i>Ploceus baglafaecht</i>	>4	In shrub and hedges in the compound and village
Spectacled Weaver	<i>Ploceus ocularis</i>	2	1 pair in shrub and hedges in the compound and village

Common name	Scientific name	Specimens counted	Remarks
Village Weaver	<i>Ploceus cucullatus</i>	>4	In shrub and hedges in the compound and village
Red-billed Firefinch	<i>Lagonosticta senegala</i>	6-8	In shrub and hedges in the compound and village
Bronze Mannikin	<i>Lonchura cucullata</i>	6-8	in shrub and hedges of the compound and village
Black-and-white Mannikin	<i>Lonchura bicolor</i>	4	At the edge of shrub
African Citril	<i>Serinus citrinelloides</i>	4-5	
Streaky Seedeater	<i>Serinus striolatus</i>	2	In shrub at the village edge

Bonga Waterfall

1) **Date:** 08.12.2014 1530-1735

GPS position: 07° 16' 00" N / 036° 15' 35" E – 07° 16' 05" N / 036° 16' 15" E, 2026 m – 1840 m a.s.l.

Habitat: village, farmland, shrub, forest, waterfall

Table 16: List of birds found at Bonga Waterfall (Bata Waterfall)

Common name	Scientific name	Specimens counted	Remarks
Hadada Ibis	<i>Bostrychia hagedash</i>	4	Flying
Tawny Eagle	<i>Aquila rapax</i>	1	Flying
Ayres's Hawk Eagle	<i>Hieraetus ayresii</i>	2	1 pair, mobbing a tawny eagle
Tambourine Dove	<i>Turtur tympanistria</i>	3	Heard
White-cheeked Turaco	<i>Tauraco leucotis</i>	3	Heard and seen in the forest
Speckled Mousebird	<i>Colius striatus</i>	>5	1 flock
Blue-breasted Bee-eater	<i>Merops variegatus</i>	3	In farmland
Little Bee-eater	<i>Merops pusillus</i>	5	In the village
Yellow-fronted Tinkerbird	<i>Pogoniulus chrysoconus</i>	2-3	Heard
Black Saw-wing	<i>Psalidoprogne pristopectera</i>	>10	1 flock in the farmland
Common Bulbul	<i>Pycnonotus barbatus ssp. schoanus</i>	>5	Heard and seen
Rüppell's Robin-chat	<i>Cossypha semirufa</i>	3	Wooded areas
Mountain Thrush	<i>Turdus olivaceus</i>	3-5	Wooded areas
Abyssinian Ground Thrush	<i>Zoothera piaggiae</i>	1	Wooded area at the edge of the village
African Dusky Flycatcher	<i>Muscicapa adusta</i>	4	Seen
Brown-throated Wattle-eye	<i>Platysteira cyanea</i>	1	Heard
Ethiopian Boubou	<i>Laniarius aethiopicus</i>	2-3	Heard
Abyssinian Black-headed Oriole	<i>Oriolus monacha</i>	2	heard
Tacazze Sunbird	<i>Nectarinia tacazze</i>	4	In farmland, shrub
Variable Sunbird	<i>Cinnyris venustus ssp. fazoqlensis</i>	>5	Heard and seen
Mountain White-eye	<i>Zosterops poliogastrus</i>	>5	At the forest edge
Thick-billed Raven	<i>Corvus crassirostris</i>	4	Flying
Swainson's Sparrow	<i>Passer swainsonii</i>	5	Heard and seen in farmland
Bronze Mannikin	<i>Lonchura cucullata</i>	6	In the village
Pin-tailed Wydah	<i>Vidua macroura</i>	2	2 males, 1 female in farmland

Common name	Scientific name	Specimens counted	Remarks
Village Indigobird	<i>Vidua chalybeata</i>	1	In the village
Yellow-fronted Canary	<i>Serinus mozambicus</i>	4	In the village

4. Discussion

During our assessment of biodiversity in the Kafa BR, 178 bird species were recorded (Table 16). Twenty-one of these species are Palearctic or African migrants which do not breed in Ethiopia. At least 61 additional species were reliably reported by other sources (Gove et al. 2008; Vinke & Brinkmeier 2010) (Table 17). All in all, at least 239 bird species can be found in the Kafa BR. Berhan (2008) listed 210 bird species for the Kafa BR. Ash & Atkins (2009) show further species in their maps which may occur in the Kafa BR, but it is not feasible to assign them exactly. As we assessed the birds for only about two weeks in the dry season, outside the breeding time of most bird species, our list is undoubtedly incomplete. Most bird species, including rails, fruit and insect eaters, weavers and finches, mate and breed at the beginning or during the rainy season and can be recorded best at that time. Intra-tropical migrants will also be present then, whereas Palearctic migrants will be absent.

For the same reasons, a precise assessment of the abundance of bird populations is impossible (s. Urban & Brown 1971). But for estimation purposes we consider species to be common if they were counted in several study sites or 10 or more specimens were found in a single study site. Twenty-seven of the documented species are restricted to the Afrotropical Highland biome and two to the Somali-Masai biome (Table 18). Thus, many species are restricted to Afrotropical highlands, of which the next closest example is in Kenya, e.g., Mount Kenya and the Aberdare Mountains. We were able to confirm the species listed by EWNHS for the Afrotropical Highland Biome (2008).

Two of the recorded species are endemic to Ethiopia (Abyssinian Longclaw, Abyssinian Catbird), seven are near-endemic (Wattled Ibis, Rouget's Rail, Black-winged Lovebird, White-cheeked Turaco, Banded Barbet, Abyssinian Slaty Flycatcher, Thick-billed Raven) (African Bird Club 2015). A further endemic species, the Yellow-fronted Parrot, has been found by other researchers and should be added to the list. Thus, nearly a third of all endemic and near-endemic bird species in Ethiopia were recorded during our study, and we presume that even more of these species, e.g., the Abyssinian Woodpecker and the White-winged Cliff Chat, occur in the Kafa BR. This once again shows the importance of the area.

Eight of the recorded species are endangered or threatened (BirdLife International 2015) (Table 19) and should be given special attention. The greatest risk to vultures is poisoning, so dead vultures should be sent for toxicology tests. Vulture breeding sites should be strictly protected. Lange (2013) reported a breeding site of different species of vultures on a cliff about 40-50 km east of Bonga.

The presence of the endangered Wattled Crane confers a particular responsibility. During the assessment a successful brood of this impressive bird species was found in Alemgono. This was our only finding for this species across the monitoring sites in Kafa. The exact number of Wattled Cranes in Ethiopia is unknown, and may be less than 200 individuals (Beilfuss 2007). Therefore, we recommend assigning them special protection.

In Africa, the richness of bird species in forested regions, especially in montane forests, is lower than in other areas of the world (Moreau 1966, Grove et al. 2013). The diversity of bird species in the sampled sites of the different montane forests seems to corroborate this. We found few ground-dwelling species, e.g., robin-chats. Most species inhabit the forest canopy. Common species from the upper stratum of the forest include the near-endemic White-cheeked Turaco, the Silvery-cheeked Hornbill, the Crowned Hornbill and Sharpe's Starling. The latter is rare in Ethiopia (Table 16) and is restricted to forest canopies in the African highlands. The occurrence of this species in the bamboo forest clearly depends on the presence of broadleaved trees.

The fact that we found the rare African Crowned Eagle in all larger forests is of special interest. As this species is a large predator, we assume that it mainly feeds on Guerezas (*Colobus polykomos*) (Del Hoyo et al. 1994). Pure bamboo forests seem to be home to few bird species. The number of bird species significantly increases whenever shrub and broadleaved trees grow among the bamboo. Unlike the bamboo forests in South and Southeast Asia or South America, Kafa's bamboo forests have no specialised bird species.

Except for the Gojeb Wetland, the studied wetlands were all influenced by the nearby forests or farmlands. Due to the high mobility of birds, the bird lists for most wetlands include species which are atypical for this habitat. According to our studies, the Gojeb and Alemgono

Wetlands are of particular importance for birds. The breeding Wattled Cranes (Alemgono), Black Crowned Cranes, the near-endemic species Rouget's Rail and the Abyssinian Longclaw were all found in these wetlands, thus highlighting the importance of this habitat.

5. Recommendations for Conservation and Monitoring

All kinds of forests are dwindling in Ethiopia for various reasons, e.g., demand for wood, charcoal and farmland as a result of overpopulation. Therefore, all remaining forests should be protected, as they provide diverse ecosystem functions. One of these functions is to conserve a region's water balance.

Wetlands provide an equally important contribution to the water balance; however, they are under threat of drying up and then being converted into farmland. Destruction of the remaining forests and wetlands would be an incalculable threat to the environment. It is therefore important to protect these habitats and monitor their status. A proven method for monitoring the ecological status of habitats is to conduct regular reviews based on indicator species. Birds are particularly suitable as indicator species, because they show changes to habitats on a larger scale. Indicator species should generally be common, typical to the habitats being monitored, and not too difficult to observe and identify.

The African Crowned Eagle, the Wattled Crane and the Black Crowned Crane are recommended as flagship species. These species are large and easy to recognise. The African Crowned Eagle is a forest species. It is not restricted to Ethiopia, but it is rare throughout Africa. The species can be easily noted when calling and is easily seen when flying over forests.

The Wattled Crane and Black Crowned Crane are attractive wetland species. Wattled Cranes are threatened (Table 19), particularly rare in Ethiopia and the population of Ethiopian Wattle Cranes probably has no contact with other populations of the species in southern Africa. Therefore, special attention should be paid to this species. Even though the Black Crowned Crane is not judged to be threatened at this time, this may be necessary in future due to political developments in the area of distribution outside of Ethiopia.

The White-cheeked Turaco and Sharpe's Starling could be good indicator species for monitoring forest conservation status, while the Black Crowned Crane and Rouget's Rail could be good indicator species for wetlands. These species are currently common and not threatened in Ethiopia, but they are dependent

on their unique habitat. The White-cheeked Turaco and Rouget's Rail are near endemic, while Sharpe's Starling is restricted to the canopy of high montane forests and is thus uncommon throughout Africa. A decline in these currently common species would show a particularly pronounced threat to their habitat.

The African Finfoot and Half-collared Kingfisher are candidate indicator species for rivers. A decline in the Half-collared Kingfisher would indicate problems with the water quality and structure of the river. The occurrence of the African Finfoot can provide information about disturbances and changes in the structure of the river and its surroundings. However, monitoring this species will be difficult, as the African Finfoot is elusive, not vocally active and mostly hidden in the riparian vegetation.

Even though primary montane forests exhibit a certain tolerance against degradation into wild coffee forest without losing bird species diversity (Gove et al. 2008, 2013), undisturbed forest blocks must be conserved as retreat areas and spread areas of disturbance-sensitive species. Big trees should also be preserved to offer breeding sites for the large cavity-nesting breeders, e.g. hornbills. Old fruit trees are important for offering nourishment to parrots, hornbills, turacos and guereza monkeys. Their continued existence in the Kafa BR can be guaranteed by including forest sites in the core zones.

A survey should be dedicated to the occurrence of the yellow-fronted parrot, which we did not find during our study, but which was observed by others some weeks later. As the species is endemic, it deserves special attention and protection.

The same is true for the wattled crane, which is not endemic but threatened. Our study showed that the species breeds in the Kafa BR, but we do not know how many pairs live there at present, which wetlands they can be found in, where they perform local migrations and what threats they are exposed to.

Finally, vulture breeding sites should be checked and protected, as mentioned above.

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7. Appendix

7.1. Tables

Table 17: List of birds recorded in December 2014 in the Kafa BR, supplemented by birds observed in 2011 by Walter, Schröder and Beisenherz

Name	Status in Ethiopia (Ash & Atkins 2009)	Number of occurrences in 2014	Number of occurrences in 2011	Remarks
Little Grebe <i>Tachybaptus ruficollis</i>	RB, c-a	1		Gojeb River
Reed Cormorant <i>Phalacrocorax africanus</i>	RB, c-a	1		Gojeb River
Striated Heron <i>Butorides striata</i>	RB, fc	1		Gojeb River
Black-headed Heron <i>Ardea melanocephala</i>	RB, vc	1		Gojeb Wetland, farmland
Hamerkop <i>Scopus umbretta</i>	RB, vc-a	1		Gojeb Wetland, farmland
White Stork <i>Ciconia ciconia</i>	PW, c	1		Gojeb Wetland
Woolly-necked Stork <i>Ciconia episcopus</i>	RB/AM, fc	2	1	Gojeb Wetland
Hadada Ibis <i>Bostrychia hagedash</i>	RB, vc	2		Gojeb Wetland, farmland
Wattled Ibis <i>Bostrychia carunculata</i>	RB, E, locally vc	1		On farmland by the road to Jimma near the bridge over the Gojeb River
Egyptian Goose <i>Alopochen aegyptiaca</i>	RB, a	1		Wetland
African Black Duck <i>Anas sparsa</i>	RB, c	1		On river in the bamboo forest (Holger Meinig)
Yellow-billed Kite <i>Milvus aegyptius</i>	RB, a	3		Widespread and common, a recent split from the black kite (<i>Milvus migrans</i>)
European Honey-buzzard <i>Pernis apivorus</i>	PW/PM, uc		1	
African Fish-eagle <i>Haliaeetus vocifer</i>	RB, c	1		At the bridge across the Gojeb River
Hooded Vulture <i>Necrosyrtes monachus</i>	RB, c-vc	2		Bonga, Gojeb Wetland
Lappet-faced Vulture <i>Torgos tracheliotus</i>	RB, fc	1		One of a flock of vultures in Gojeb Wetland
White-headed Vulture <i>Trionocephus occipitalis</i>	RB, uc	1		One of a flock of vultures in Gojeb Wetland
White-backed Vulture <i>Gyps africanus</i>	RB/M, a	2		More than 10 in a flock of vultures in Gojeb Wetland
Rüppell's Vulture <i>Gyps rueppellii</i>	RB, c-vc	1		One of a flock of vultures in Gojeb wetland
Western Banded Snake-eagle <i>Circaetus cinerascens</i>	RB, uc	1		1 in the gallery forest in Gojeb wetland
Short-toed Snake-eagle <i>Circaetus gallicus</i>	PW, fc		1	
Bateleur <i>Terathopius ecaudatus</i>	RB, c	1	1	1 in savannah near street to Jimma, 1 near bamboo forest (Holger Meinig)
Western Marsh-harrier <i>Circus aeruginosus</i>	PW, c	1		In Gojeb wetland

Name	Status in Ethiopia (Ash & Atkins 2009)	Number of occurrences in 2014	Number of occurrences in 2011	Remarks
Montagu's Harrier <i>Circus pygargus</i>	PW/PM, c	1		Overflying
African Goshawk <i>Accipiter tachiro</i>	RB, a	1		In forests of Komba, Boka, at the trail to the hot springs, near bamboo forest
Rufous-breasted Sparrowhawk <i>Accipiter rufiventris</i>	RB, uc	1		Forest at Medabo Forest road
Augur Buzzard <i>Buteo augur</i>	RB, vc	2		Widespread and common
Common Buzzard <i>Buteo buteo</i>	PW/PM, locally a	1		1
Greater Spotted Eagle <i>Aquila clanga</i>	PW/PM, uc	1		1
Tawny Eagle <i>Aquila rapax</i>	RB, vc	1		2
Steppe Eagle <i>Aquila nipalensis</i>	PW/PM, vc-a	1		1
Ayres's Hawk-eagle <i>Hieraetus ayresii</i>	RB, uc	1		A pair attacking a tawny eagle at the waterfall near Bonga
Long-crested Eagle <i>Lophaetus occipitalis</i>	RB, c-vc	1		1 near Komba Forest, 1 at the trail to the hot springs, 1 in Alemgono
African Crowned Eagle <i>Stephanoaetus coronatus</i>	RB, uc-r	1		Several above forests: Komba, Boka, bamboo forest, Boginda
African Hobby <i>Falco cuvierii</i>	RB, uc	1		1
Common Kestrel <i>Falco tinnunculus</i>	RB/PW, c	1		In Gojeb Wetland
Helmeted Guineafowl <i>Numida meleagris</i>	RB, c-a	2		A flock in Alemgono
Common Quail <i>Coturnix coturnix</i>	PW/RB, c-a when present	1		In Gojeb Wetland
Chestnut-naped Francolin <i>Francolinus castaneicollis</i>	RB, locally c	1	1	In the bambolo forest, Alemgono and in Gojeb Wetlands
Scally Francolin <i>Francolinus squamatus</i>	RB, lc	1		In Komba Forest
Rouget's Rail <i>Rougetius rougetii</i>	RB, E, vc	2	2	In Gojeb Wetland, Alemgono and Boka Wetlands
Black Crane <i>Amaurornis flavirostra</i>	RB, c-vc	1		1 in Alemgono
African Rail <i>Rallus caerulescens</i>	RB, uc	1		1 in Alemgono
Wattled Crane <i>Bugeranus carunculatus</i>	RB, r	1	1	Alemgono: 2 pairs, 1 juv.
Black Crowned Crane <i>Balearica pavonina</i>	RB, c-locally a	2		Wetlands (e.g. Alemgono, Gojeb) at least 5 pairs with juveniles
African Finfoot <i>Podica senegalensis</i>	R, uc-r			1 female at bridge over river in Gojeb Wetland
African Wattled Lapwing <i>Vanellus senegallus</i>	RB, c	1		Wetlands (e.g. Alemgono, Gojeb)
Green Sandpiper <i>Tringa ochropus</i>	PW/PM, c	1		In Alemgono Wetland
Wood Sandpiper <i>Tringa glareola</i>	PW/PM, c	1		At Gojeb River near road to Jimma, Gojeb Wetland, Alemgono
Common Sandpiper <i>Actitis hypoleucos</i>	PW/PM, vc	1		At Gojeb River near road to Jimma, at bridge over river in Gojeb Wetland

Name	Status in Ethiopia (Ash & Atkins 2009)	Number of occurrences in 2014	Number of occurrences in 2011	Remarks
Common Snipe <i>Gallinago gallinago</i>	PW/PM, vc	1		In Alemgono Wetland
African Green-pigeon <i>Treron calvus</i>	RB, uc	1		In forest near Shoriri Wetland
Bruce's Green-pigeon <i>Treron waalia</i>	RB, c	1		1 in Komba Forest
Speckled Pigeon <i>Columba guinea</i>	RB, c	2		Villages, edge of forests
African Olive Pigeon <i>Columba arquatrix</i>	RB, locally c	1		Broadleaved forest
Tambourine Dove <i>Turtur tympanistria</i>	RB, fc-vc	2	1	Widespread and common
Blue-spotted Wood-dove <i>Turtur afer</i>	RB, c-vc	2	1	Widespread and common
Dusky Turtle-dove <i>Streptopelia lugens</i>	RB, c	1		Villages
Red-eyed Dove <i>Streptopelia semitorquata</i>	RB, c-vc	2		Widespread and common
Lemon Dove <i>Aplopelia larvata</i>	RB, uc-locally c	1		Near Gojeb bridge on road to Jimma
Black-winged Lovebird <i>Agapornis taranta</i>	RB, E, c	1		Komba Forest, heard
White-cheeked Turaco <i>Tauraco leucotis</i>	RB, c-locally vc	3	1	Broadleaved forest
African Emerald Cuckoo <i>Chrysococcyx cupreus</i>	RB, locally c	1		Heard on KDA compound and in Boka Forest
Klaas's Cuckoo <i>Chrysococcyx klaas</i>	RB, c	1		1 in Komba Forest
Blue-headed Coucal <i>Centropus monachus</i>	RB, c-vc	1		In Alemgono and Gojeb Wetlands
African Wood Owl <i>Strix woodfordii</i>	RB, r	1		Heard at the KDA Guesthouse
Abyssinian/Montane Nightjar <i>Caprimulgus poliocephalus</i>	RB, uc	1		2 heard in Alemgono, 1 seen on road from Bonga to Boka Forest
Little Swift <i>Apus affinis</i>	RB, locally c	2		Old bridge across Gojeb River on road to Jimma, Gojeb Wetland
Speckled Mousebird <i>Colius striatus</i>	RB, a	3		Widespread and common
Striped Kingfisher <i>Halcyon chelicuti</i>	RB, c	1		Gallery forest on road to Jimma, Shoriri Wetland
Malachite Kingfisher <i>Alcedo cristata</i>	RB, fc	1		At Gojeb River
African Pygmy Kingfisher <i>Ceyx pictus</i>	RB, c	1		near KDA Guessthouse compound, in Gojeb Wetland
Half-collared Kingfisher <i>Alcedo semitorquata</i>	RB, uc	1		At the bridge over Gojeb River, breeding (?)
Grey-headed Kingfisher <i>Halcyon leucocephala</i>	RB/AM, a		1	
Pied Kingfisher <i>Ceryle rudis</i>	RB, c-vc	1		At Gojeb River
Giant Kingfisher <i>Megaceryle maxima</i>	RB, fc	1		At Gojeb River
Little Bee-eater <i>Merops pusillus</i>	RB, c	2		Widespread and common

Name	Status in Ethiopia (Ash & Atkins 2009)	Number of occurrences in 2014	Number of occurrences in 2011	Remarks
Blue-breasted Bee-eater <i>Merops variegatus</i>	RB, c	1		Forest clearing at the trail to hot springs, in KDA compound
White-throated Bee-eater <i>Merops albicollis</i>	AM, c	1	2	Farmland in Gojeb Wetland, Alemgono
European Bee-eater <i>Merops apiaster</i>	PW/P, vc	2	3	Several flocks seen and heard
Northern Carmine Bee-eater <i>Merops nubicus</i>	RB, vc	1		1 / flying
Broad-billed Roller <i>Coracias glaucurus</i>	RB, fc	1		1 / Komba Forest
African Grey Hornbill <i>Tockus nasutus</i>	RB/AM, c	1		Overflying KDA Guesthouse
Crowned Hornbill <i>Tockus alboterminatus</i>	RB, uc	1		In forest on the trail to the hot springs, forest at Medabo road, Komba Forest
Silvery-cheeked Hornbill <i>Bycanistes brevis</i>	RB, c	2		Widespread and common in forests
Yellow-fronted Tinkerbird <i>Pogoniulus chrysoconus</i>	RB, uc	2		Widespread in trees in villages and forests
Banded Barbet <i>Lybius undatus</i>	RB, E, fc	1		1 in trees on KDA compound, Komba Forest
Double-toothed Barbet <i>Lybius bidentatus</i>	RB, uc		1	
Greater Honeyguide <i>Indicator indicator</i>	RB, c-fc	1		1 in Komba Forest
Lesser Honeyguide <i>Indicator minor</i>	RB, fc	1		1 on KDA compound, more heard in forests, e.g. Komba
Eurasian Wryneck <i>Jynx torquilla</i>	PM, fc		1	
Nubian Woodpecker <i>Campethera nubica</i>	RB, c	1		1 in Komba Forest
Grey-headed Woodpecker <i>Dendropicos spodocephalus</i>	RB, fc	1		1 in Komba Forest, recent split from grey woodpecker (<i>D. goertae</i>)
Cardinal Woodpecker <i>Dendropicos fuscescens</i>	RB, c	1	1	in gallery forest in Gojeb Wetland, in forest on the trail to the hot springs
Common Sand Martin <i>Riparia riparia</i>	PW, c-vc	2		Several in mixed flocks of swallows
Banded Martin <i>Riparia cincta</i>	RB/AM, locally c	1		Few in mixed flocks of swallows
Lesser Striped Swallow <i>Cecropis abyssinica</i>	RB, locally vc	2		Night roost at the bridge across the Gojeb River
Wire-tailed Swallow <i>Hirundo smithii</i>	RB, locally c	1	2	Some at the bridge across the Gojeb River and on the road to Jimma crossing the Gojeb River
Barn Swallow <i>Hirundo rustica</i>	PW/PM, a	3		Most common swallow
Black Saw-wing <i>Psalidoprogne pristopectera</i>	RB, c	2		Several flocks at different locations
Yellow Wagtail <i>Motacilla flava</i>	PW/PM, vc-a	3-4		Widespread on farmland and in wetlands, if there were grazed areas
Grey Wagtail <i>Motacilla cinerea</i>	PW, c	1	1	Widespread at rivers, only few specimens
Mountain Wagtail <i>Motacilla clara</i>	RB, c	1		Widespread near water
African Pied Wagtail <i>Motacilla aguimp</i>	RB, fc	1	1	Only 1 at Gojeb River

Name	Status in Ethiopia (Ash & Atkins 2009)	Number of occurrences in 2014	Number of occurrences in 2011	Remarks
African/Grassland Pipit <i>Anthus cinnamomeus</i>	RB, c	2	1	On grazed areas in Alemgono and Gojeb Wetlands
Red-throated Pipit <i>Anthus cervinus</i>	PW/PM, vc-a	3		Flocks in wetlands if there were short grazed areas
Abyssinian Longclaw <i>Macronyx flavicollis</i>	RB, E, c	2	2	At least 5 pairs in Alemgono Wetland and 5 specimens in Gojeb Wetland
Grey Cuckooshrike <i>Coracina caesia</i>	RB, locally c	1	1	In Komba Forest, recorded in 2011 in forest on Medabo Forest Road
Common Bulbul <i>Pycnonotus barbatus schoanus</i>	RB, a	3		Widespread and common in villages and forests
Rüppell's Robin-chat <i>Cossypha semirufa</i>	RB, c	2		Widespread: common in gardens, less common in forests
Red-capped Robin-chat <i>Cossypha natalensis</i>	RB, uc-locally c	1		Three times in Komba Forest
Snowy-headed Robin-chat <i>Cossypha niveicapilla</i>	RB, locally c	1		Only 1 in the forest on the trail to the hot springs
Common Stonechat <i>Saxicola torquatus</i>	RB/PW, c	2		In Alemgono, Gojeb (ssp. <i>maura</i>) and Boka Wetlands, on farmland near Boka (ssp. <i>albofasciatus</i>)
Whinchat <i>Saxicola rubetra</i>	PW/PM, c	1		Some in wetlands
Pied Wheatear <i>Oenanthe pleschanka</i>	PW/PM, vc	1		Some on farmland
Abyssinian Ground Thrush <i>Zoothera piaggiae</i>	RB, uc-locally fc	1		Near waterfall in Bonga, in the forest on trail to hot springs, in savannah by Gojeb River
Mountain Thrush <i>Turdus olivaceus</i>	RB, c-sometimes vc	2		Most common thrush, very common in fruiting trees
African Thrush <i>Turdus pelios</i>	RB, c	1		1 in savannah at Gojeb River
Cinnamon Bracken Warbler <i>Bradypterus cinnamomeus</i>	RB, c	2		Commonly heard in scrub and at edges of forests
Dark-capped Yellow Warbler <i>Chloropeta natalensis</i>	RB, uc	1		Twice: savannah at Gojeb River and at the edge of forest in Boka
Willow warbler <i>Phylloscopus trochilus</i>	PW/PM, c-a	1		Singing twice
Common Chiffchaff <i>Phylloscopus collybita</i>	PW/PM, c	2		Most common Phylloscopus warbler
Brown Woodland Warbler	RB, fc	2		Common in forests: Komba, Boka, forest on the trail to the hot springs, forest at Medabo Forest road, parts of bamboo forest
Blackcap <i>Sylvia atricapilla</i>	PW/PM, locally vc	2	1	Mostly individuals, 1 feeding flock in the forest on the trail to the hot springs
Lesser Whitethroat <i>Sylvia curruca</i>	PW/PM, c	1		Once
Singing Cisticola <i>Cisticola cantans</i>	RB, fc	1		2 at the edge of forest at Komba and Boka
Ethiopian Cisticola <i>Cisticola lugubris</i>	RB, c, nE	1		1 pair in Doma Wetland
Stout Cisticola <i>Cisticola robustus</i>	RB, c	1		2 pairs in Gojeb Wetland
Tawny-flanked Prinia <i>Prinia subflava</i>	RB, c	1		Widespread: gardens, edge of forests
Grey-backed Camaroptera <i>Camaroptera brachyura</i>	RB, vc	2	1	Widespread and common: hedges, edge of forests, shrub

Name	Status in Ethiopia (Ash & Atkins 2009)	Number of occurrences in 2014	Number of occurrences in 2011	Remarks
Abyssinian Slaty Flycatcher <i>Melaenornis chocolatinus</i>	RB, E, c	2		Several around Bonga, in gardens, at edge of forests and in Alemgono, Boka Forest and Komba Forest, on KDA compound
Northern Black Flycatcher <i>Melaenornis edolioides</i>	RB, c	1		1 flock (family ?) in gallery forest at Gojeb River on the road to Jimma, in gallery forest near Gojeb Wetland, and in Komba Forest
African Dusky Flycatcher <i>Muscicapa adusta</i>	RB, c	2		Widespread and common
African Paradise Flycatcher <i>Terpsiphone viridis</i>	RB, vc	2		Widespread and common
Brown-throated Wattle-eye <i>Platysteira cyanea</i>	RB, locally fc	2		Moderately common in most forests
Black-headed Batis <i>Batis minor</i>	RB, c	2		In wooded areas, forests
White-rumped Babbler <i>Turdoides leucopygia omoensis</i>	RB, c	2		Surroundings of Alemgono, Gojeb Wetlands and Komba Forest
Abyssinian Catbird <i>Parophasma galinieri</i>	RB, E, uc-locally vc	1		Komba and Boka Forest, near bamboo forest, forest on trail to hot springs, more often heard than seen
Scarlet-chested Sunbird <i>Chalcomitra senegalensis</i>	RB, c	1		Some specimens near and in Bonga, surroundings of Komba Forest
Tacazze Sunbird <i>Nectarinia tacazze</i>	RB, c	2		Widespread and common
Olive Sunbird	RB, uc	1	1	
Variable Sunbird <i>Cinnyris venustus ssp. fazoqlensis</i>	RB, c-vc	3		Widespread and common if there were flowers, most common sunbird
Copper Sunbird <i>Cinnyris cupreus</i>	RB, locally uc-vc	1	1	Mostly near or in Bonga, e.g., KDA compound
Mountain White-eye <i>Zosterops poliogastrus</i>	RB, c	2		Widespread and common
Abyssinian White-eye <i>Zosterops abyssinicus</i>	RB, c	1		Village and savannah by Gojeb River
Common Fiscal <i>Lanius collaris</i>	RB, c-vc	1		KDA compound, near Komba forest, at Boka Wetland, in Alemgono Wetland
Northern Puffback <i>Dryoscopus gambensis</i>	RB, c	1	1	Forest near Shoriri Wetland, forest at Medabo Forest road, Komba Forest, Boka Forest, forest at Gojeb Wetland
Ethiopian Boubou <i>Laniarius aethiopicus</i>	RB, c-locally vc	2		Widespread and common
Abyssinian Black-headed Oriole <i>Oriolus monacha</i>	RB, E, fc	2		Widespread and common
Cape Crow <i>Corvus capensis</i>	RB, c	1		Only some in farmland
Thick-billed Raven <i>Corvus crassirostris</i>	RB, E, c	2		Most common Corvidae
Stuhlmann's Starling <i>Poeoptera stuhlmanni</i>	RB, locally fc	1		2 birds in forest on Medabo Forest road
Slender-billed Starling <i>Onychognathus tenuirostris</i>	R, locally c	2	2	Several flocks near waterfall in Bonga and in the forest on Medabo Forest road
Red-winged Starling <i>Onychognathus morio</i>	RB, c	1		Few flocks
Greater Blue-eared Starling <i>Lamprotornis chalybaeus</i>	RB, vc	3		Large flocks in Gojeb Wetland

Name	Status in Ethiopia (Ash & Atkins 2009)	Number of occurrences in 2014	Number of occurrences in 2011	Remarks
Violet-backed Starling <i>Cinnyricinclus leucogaster</i>	RB, c-sometimes vc	1		On KDA compound, savannah by Gojeb River, Shoriri Wetland
Sharpe's Starling <i>Pholia sharpii</i>	RB, uc	2		In canopy of broadleaved forests: Boka, forest on Medabo Forest Road, forest on trail to the hot springs; in bamboo forest where there were broadleaved trees between the bamboo
Red-billed Oxpecker <i>Buphagus erythrorhynchus</i>	RB, c	1		Accompanying cattle in Gojeb Wetland
Swainson's Sparrow <i>Passer swainsonii</i>	RB, c-vc	2		Widespread in villages and farmland
Baglafecht Weaver <i>Ploceus baglafecht</i>	MB, vc	2		In villages, on farmland and at edge of forest
Spectacled Weaver <i>Ploceus ocularis</i>	RB, c	1		Individual pairs near villages
Village Weaver <i>Ploceus cucullatus</i>	R, vc	3		Most common weaver
Red-collared Widowbird <i>Euplectes ardens</i>	RB, c	2		In wetlands: Alemgono, Gojeb, Shorori
Fan-tailed Widowbird <i>Euplectes axillaris</i>	RB, uc	3		In wetlands: Alemgono, Gojeb, Shorori
Crimson Waxbill <i>Estrilda rhodopyga</i>	RB, c	1		Surroundings of Komba Forest and KDA Guesthouse
Common Waxbill <i>Estrilda astrild</i>	RB, locally c	2	1	On farmland at the edge of Boka Forest
Yellow-bellied Waxbill <i>Coccyzygia quartinia</i>	RB, c	1	1	
Red-cheeked Cordon-bleu <i>Uraeginthus bengalus</i>	RB, c-vc	2		Widespread and common in villages and on farmland
Red-billed Firefinch <i>Lagonosticta senegalae</i>	RB, vc	2		Widespread and common in villages and on farmland
Bronze Mannikin <i>Lonchura cucullata</i>	RB, c-vc	2		widespread and common
Black-and-white Mannikin <i>Lonchura bicolor</i>	RB, very locally c	1		Pairs and small flocks in wetland and at edge of forest
Pin-tailed Wydah <i>Vidua macroura</i>	RB, c	1		Few near wetlands
Village Indigobird <i>Vidua chalybeata</i>	RB, c	1		Few in villages in which red-billed firefinches were also found
African citril <i>Serinus citrinelloides</i>	RB, uc	2		Widespread and common
Yellow-fronted Canary <i>Serinus mozambicus</i>	RB, c-vc	2		In bamboo forest and savannah at Gojeb River
White-rumped Seedeater <i>Serinus leucopygius</i>	RB, uc-c	1		Savannah at Gojeb River
Streaky Seedeater <i>Serinus striolatus</i>	RB, c-vc	2		Around Bonga, surroundings of Alemgono and Gojeb Wetlands
Brown-rumped Seedeater <i>Serinus tristriatus</i>	RB	1		Only once

Abbreviations:

A = Africa

B = Breeding confirmed

M = Migrant

P = breeds in Palaearctic

R = Resident

W = winters

E = endemic or near endemic

a = abundant

vc = very common

c = common

fc = fairly common

uc = uncommon

r = rare

1 = 1-10 Ex.

2 = 11-100 Ex.

3 = 101-1000 Ex.

Table 18: List of additional bird species found in the Kafa BR by other investigators: 1) Gove, et al. (2008) 2) Vinke & Brinkmeier (2010) 3) Putze, Miersch & Winkler (2014)

English name	Scientific name	Cited publication
Darter	<i>Anhinga rufa</i>	2
Cattle Egret	<i>Bubulcus ibis</i>	2
Great White Egret	<i>Ardea alba</i>	2
Grey Heron	<i>Ardea cinerea</i>	2
Abdim's Stork	<i>Ciconia abdimii</i>	2
White-faced Whistling-duck	<i>Dendrocygna viduata</i>	3
Yellow-billed Duck	<i>Anas undulata</i>	2
African harrier-hawk	<i>Polyboroides typus</i>	1, 2
Black Sparrowhawk	<i>Accipiter melanoleucus</i>	2, 3
Red-chested Flufftail	<i>Sarothrura rufa</i>	3
African Snipe	<i>Gallinago nigripennis</i>	2
Emerald-spotted Wood-dove	<i>Turtur chalcospilos</i>	1
African Mourning Dove	<i>Streptopelia decipiens</i>	2
Yellow-fronted Parrot	<i>Poicephalus flavifrons</i>	1, 2, 3
Jacobin Cuckoo	<i>Clamator jacobinus</i>	1
Red-chested Cuckoo	<i>Cuculus solitaries</i>	1, 2
Black Cuckoo	<i>Cuculus clamosus</i>	2
Senegal Coucal	<i>Centropus senegalensis</i>	1
Verreaux's Eagle-owl	<i>Bubo lacteus</i>	2
Narina Trogon	<i>Apaloderma narina</i>	1, 2
Nyanza Swift	<i>Apus niansae</i>	2
Woodland Kingfisher	<i>Halcyon senegalensis</i>	2
Cinnamon-chested Bee-eater	<i>Merops oreobates</i>	2
Abyssinian Ground-hornbill	<i>Bucorvus abyssinicus</i>	2
Red-fronted Barbet	<i>Tricholaema diademata</i>	1
Black-billed Barbet	<i>Lybius guifsobalito</i>	1, 2
Red-throated Wryneck	<i>Jynx ruficollis</i>	2
Bearded Woodpecker	<i>Dendropicos namaquus</i>	1
African Sand Martin	<i>Riparia paludicola</i>	2
Mosque Swallow	<i>Hirundo senegalensis</i>	2
Red-rumped Swallow	<i>Hirundo daurica</i>	2
African Rock Martin	<i>Hirundo fuligula</i>	2
House Martin	<i>Delichon urbicus</i>	2
African Pied Wagtail	<i>Motacilla aguimp</i>	2
Red-shouldered Cuckooshrike	<i>Campephaga phoenicea</i>	1, 2
Black Cuckooshrike	<i>Campephaga flava</i>	2
Ground-scraper Thrush	<i>Psophocichla litsipsirupa</i>	2
White-browed Robin Chat	<i>Cossypha heuglini</i>	1, 2
Northern Wheatear	<i>Oenanthe oenanthe</i>	2
Isabelline Wheatear	<i>Oenanthe isabellina</i>	2
Hill Chat	<i>Cercomela sordida</i>	2
Red-faced Cisticola	<i>Cisticola erythrops</i>	1, 2
Red-fronted Warbler	<i>Urorhipis rufifrons</i>	2
Grey-headed Batis	<i>Batis orientalis</i>	2
Spotted Creeper	<i>Salpornis spilonotus</i>	1, 2
Collared Sunbird	<i>Hedydipna collaris</i>	1
Marsh Tchagra	<i>Tchagra minutus</i>	1, 2

English name	Scientific name	Cited publication
Black-crowned Tchagra	<i>Tchagra senegallus</i>	2
Grey-headed Bushshrike	<i>Malaconotus blanchoti</i>	2
Sulphur-breasted Bushshrike	<i>Telophorus sulfureopectus</i>	2
Fan-tailed Raven	<i>Corvus rhipidurus</i>	2
Red-winged Starling	<i>Onychognathus morio</i>	1, 2
Lesser Masked Weaver	<i>Ploceus intermedius</i>	2
Black-headed Weaver	<i>Ploceus melanocephalus</i>	2
Red-billed Quelea	<i>Quelea quelea</i>	2
Northern Red Bishop	<i>Euplectes franciscanus</i>	2
Black Bishop	<i>Euplectes gierowii</i>	2
Red Bishop	<i>Euplectes orix</i>	2
Yellow-mantled Widowbird	<i>Euplectes macroura</i>	2
Swee Waxbill	<i>Estrilda melanotis</i>	2

Table 19: Biome-restricted species in Ethiopia (according to Ash & Atkins 2009) which were observed in the Kafa BR

English name	Scientific name
Afrotropical Highland Biome	
Chestnut-naped Francolin	<i>Francolinus castaneicollis</i>
Rouget's Rail	<i>Rougetius rougetii</i>
Dusky Turtle-dove	<i>Streptopelia lugens</i>
Black-winged Lovebird	<i>Agapornis taranta</i>
Yellow-fronted Parrot	<i>Poicephalus flavifrons</i>
White-cheeked Turaco	<i>Turaco leucotis</i>
Abyssinian/Montane Nightjar	<i>Caprimulgus poliocephalus</i>
Banded Barbet	<i>Lybius undatus</i>
Abyssinian Black-headed Oriole	<i>Oriolus monacha</i>
Thick-billed Raven	<i>Corvus crassirostris</i>
Cinnamon Bracken Warbler	<i>Bradypterus cinnamomeus</i>
Brown Woodland Warbler	<i>Phylloscopus umbrovirens</i>
Abyssinian Catbird	<i>Parophasma galinieri</i>
Montane White-eye	<i>Zosterops poliogastrus</i>
Slender-billed Starling	<i>Onychognathus tenuirostris</i>
Stuhlmann's Starling	<i>Poeoptera stuhlmanni</i>
Sharpe's Starling	<i>Pholia sharpii</i>
Abyssinian Ground Thrush	<i>Zoothera piaggiae</i>
Rüppel's Robin-chat	<i>Cossypha semirufa</i>
Abyssinian Slaty Flycatcher	<i>Melaenornis chocolatinus</i>
Tacazze Sunbird	<i>Nectarinia tacazze</i>
Swainson's Sparrow	<i>Passer swainsonii</i>
Baglafecht Weaver	<i>Ploceus baglafecht</i>
Abyssinian Longclaw	<i>Macronyx flavicollis</i>
African Citril	<i>Serinus citrinelloides</i>
Brown-rumped Seedeater	<i>Serinus tristriatus</i>
Streaky Seedeater	<i>Serinus striolatus</i>
Somali-Masai Biome	
White-rumped Babbler	<i>Turdoides leucopygia</i>
Abyssinian White-eye	<i>Zosterops abyssinicus</i>

Table 20: Threat categories according to BirdLife International species fact sheets (January 2015)

English name	Scientific name	Threat category
Hooded Vulture	<i>Necrosyrtes monachus</i>	endangered
Lappet-faced Vulture	<i>Torgos tracheliotus</i>	vulnerable
White-headed Vulture	<i>Trionoceps occipitalis</i>	vulnerable
White-backed Vulture	<i>Gyps africanus</i>	endangered
Rüppell's Vulture	<i>Gyps rueppellii</i>	endangered
Bateleur	<i>Terathopius ecaudatus</i>	near threatened
Greater Spotted Eagle	<i>Aquila clanga</i>	vulnerable
Wattled Crane	<i>Bugeranus carunculatus</i>	vulnerable

Table 21: List of birds recorded in December 2014 in the Kafa BR, threat status and endemism

Scientific name	Family	English name	Habitat	Study sites	Distribution	Threat status	CITES Appendix	Endemism
<i>Tachybaptus ruficollis</i>	Podicipedidae	Little Grebe	river	GO-riv	On Gojeb River			
<i>Phalacrocorax africanus</i>	Phalacrocoracidae	Reed Cormorant	river	GO-riv	On Gojeb River			
<i>Butorides striata</i>	Ardeidae	Striated Heron	river	GO-riv	At Gojeb River			
<i>Ardea melanocephala</i>		Black-headed Heron	wetland, farmland	GO-wet	In Gojeb Wetland, on farmland			
<i>Scopus umbretta</i>	Scopidae	Hamerkop	wetland, farmland		Wetland, farmland			
<i>Ciconia ciconia</i>	Ciconiidae	White Stork	wetland	GO-wet	In Gojeb Wetland			
<i>Ciconia episcopus</i>		Woolly-necked Stork	wetland	GO-wet	In Gojeb Wetland			
<i>Bostrychia hagedash</i>	Threskiornithidae	Hadada Ibis	wetland, farmland	GO-wet, AG	In Alemgono, Gojeb Wetlands, farmland			
<i>Bostrychia carunculata</i>		Wattled Ibis	farmland, river	AG	On farmland by the road to Jimma near bridge over Gojeb River, Alemgono			near-endemic
<i>Alopochen aegyptiaca</i>	Anatidae	Egyptian Goose	wetland		Wetland			
<i>Anas sparsa</i>		African Black Duck	river	BA	On river in the bamboo forest (Holger Meinig)			
<i>Milvus aegyptius</i>	Accipitridae	Yellow-billed Kite			Widespread and common		2	
<i>Pernis apivorus</i>		European Honey-buzzard					2	
<i>Haliaeetus vocifer</i>		African Fish-eagle	river	GO-riv	At the bridge across the Gojeb River		2	
<i>Necrosyrtes monachus</i>		Hooded Vulture		GO-wet	In Bonga, in Gojeb Wetland	endangered	2	
<i>Torgos tracheliotus</i>		Lappet-faced Vulture		GO-wet	One in a flock of vultures in Gojeb Wetland	vulnerable	2	

Scientific name	Family	English name	Habitat	Study sites	Distribution	Threat status	CITES Appendix	Endemism
<i>Trionoceps occipitalis</i>		White-headed Vulture		GO-wet	One in a flock of vultures in Gojeb Wetland	vulnerable	2	
<i>Gyps africanus</i>		White-backed Vulture		KO, GO-wet	More than 10 in a flock of vultures in Gojeb Wetland	endangered	2	
<i>Gyps rueppellii</i>		Rüppell's Vulture		GO-wet	1 in a flock of vultures in Gojeb Wetland	endangered	2	
<i>Circaetus cinerascens</i>		Western Banded Snake-eagle		GO-riv	1 in the gallery forest in Gojeb Wetland		2	
<i>Circaetus gallicus</i>		Short-toed Snake-eagle			Seen in 2011		2	
<i>Terathopius ecaudatus</i>		Bateleur		BA	1 in savannah near road to Jimma, 1 near bamboo forest (Holger Meinig)	near threatened	2	
<i>Circus pygargus</i>		Montagu's harrier	farmland	KDA-GH	Overflying		2	
<i>Circus aeruginosus</i>		Western Marsh-harrier	wetland	AG, GO-wet	In Alemgono, Gojeb wetlands		2	
<i>Accipiter tachiro</i>		African Goshawk	forests	KO, BK, BA	In forests of Komba, Boka, on the trail to the hot springs, near bamboo forest		2	
<i>Accipiter rufiventris</i>		Rufous-breasted Sparrowhawk	forest	BO	Forest by Medabo Forest road		2	
<i>Buteo augur</i>		Augur Buzzard			Widespread and common		2	
<i>Buteo buteo</i>		Common Buzzard		BK	1		2	
<i>Aquila clanga</i>		Greater Spotted Eagle			1	vulnerable	2	
<i>Aquila rapax</i>		Tawny Eagle		KDA-GH	2		2	
<i>Aquila nipalensis</i>		Steppe Eagle			1		2	
<i>Hieraaetus ayresii</i>		Ayres's Hawk-eagle		KDA-GH	A pair attacking a tawny eagle at the waterfall near Bonga		2	
<i>Lophaetus occipitalis</i>		Long-crested Eagle		KO, BO, AG	1 near Komba Forest, 1 on the trail to the hot springs		2	
<i>Stephanoaetus coronatus</i>		African Crowned Eagle	forests	KO, BK, BA, GO-wet	Several above forests: Komba, Boka, bamboo forest		2	
<i>Falco cuvierii</i>	Falconidae	African Hobby		GO-wet	1		2	
<i>Falco tinnunculus</i>		Common Kestrel	wetland, farmland	GO-wet	In Gojeb Wetland		2	
<i>Numida meleagris</i>	Numididae	Helmeted Guineafowl		AG	A flock in Alemgono			

Scientific name	Family	English name	Habitat	Study sites	Distribution	Threat status	CITES Appendix	Endemism
<i>Coturnix coturnix</i>	Phasianidae	Common Quail	wetland, farmland	GO-wet	In Gojeb Wetland			
<i>Francolinus castaneicollis</i>		Chestnut-naped Francolin	bamboo forest, wetland	BA, AG, GO-wet	in the bamboo forest and in Gojeb Wetland			
<i>Francolinus squamatus</i>		Scally Francolin	forest	KO	In Komba Forest			
<i>Rallus caerulescens</i>	Rallidae	African Rail	wetland	AG				
<i>Rougetius rougetii</i>		Rouget's Rail	wetland	GO-wet, BK, AG	In Gojeb Wetland, Alemgono and Boka Wetlands			near-endemic
<i>Amaurornis flavirostra</i>		Black Crake	wetland	AG	1 in Alemgono			
<i>Bugeranus carunculatus</i>	Gruidae	Wattled Crane	wetland	AG	Alemgono: 2 pairs, 1 juv.	vulnerable	2	
<i>Balearica pavonina</i>		Black Crowned Crane	wetland	AG, GO-wet	Wetlands (e.g., Alemgono, Gojeb) at least 5 pairs with juv.		2	
<i>Podica senegalensis</i>	Heliornithidae	African Finfoot	river	GO-riv	1 female at bridge over river in Gojeb Wetland			
<i>Vanellus senegallus</i>	Charadriidae	African Wattled Lapwing	wetland	GO-wet, AG	Wetlands (e.g., Alemgono, Gojeb)			
<i>Tringa ochropus</i>	Scolopacidae	Green Sand-piper	wetland	AG	In Alemgono Wetland			
<i>Tringa glareola</i>		Wood Sandpiper	wetland	GO-wet, AG	At Gojeb River near road to Jimma			
<i>Actitis hypoleucos</i>		Common Sand-piper	wetland	GO-wet	At Gojeb River near road to Jimma, at bridge over river in Gojeb Wetland			
<i>Gallinago gallinago</i>		Common Snipe	wetland	AG				
<i>Treron calvus</i>	Columbidae	African Green-pigeon	forest	SHO	In forest near Shoriri Wetland			
<i>Treron waalia</i>		Bruce's Green-pigeon	forest	KO	1			
<i>Columba guinea</i>		Speckled Pigeon	villages, forest	KDA-GH	Villages, forest			
<i>Colomba arquatrix</i>		African Olive Pigeon	broadleaf forest	BA, BO	Broadleaf forest			
<i>Turtur tympanistria</i>		Tambourine Dove			Widespread and common			
<i>Turtur afer</i>		Blue-spotted Wood-dove			Widespread and common			
<i>Streptopelia lugens</i>		Dusky Turtle-dove	village					
<i>Streptopelia semitorquata</i>		Red-eyed Dove			Widespread and common			
<i>Aplopelia larvata</i>		Lemon Dove	forest		At Gojeb River near road to Jimma			
<i>Agapornis taranta</i>		Black-winged Lovebird	forest	KO	Heard		2	near-endemic

Scientific name	Family	English name	Habitat	Study sites	Distribution	Threat status	CITES Appendix	Endemism
<i>Tauraco leucotis</i>	Musophagidae	White-cheeked Turaco	broadleaf forest		Widespread and common		2	near-endemic
<i>Chrysococcyx cupreus</i>	Cuculidae	African Emerald Cuckoo		KDA-GH, BK	Heard on KDA compound and in Boka Forest			
<i>Chrysococcyx klaas</i>		Klaas's Cuckoo		KO	1 in Komba Forest			
<i>Centropus monachus</i>		Blue-headed Coucal		AG, GO-wet	In Alemgono and Gojeb Wetlands			
<i>Strix woodfordii</i>	Strigidae	African Wood-owl		KDA-GH	Heard at night			
<i>Caprimulgus poliocephalus</i>	Caprimulgidae	Abyssinian/Montane Nightjar		AG, BK	2 heard in Alemgono, 1 seen on road from Bonga to Boka Forest			
<i>Apus affinis</i>	Apodidae	Little Swift		GO-riv	Old bridge across Gojeb River on road to Jimma			
<i>Colius striatus</i>	Coliidae	Speckled Mousebird			Widespread and common			
<i>Halcyon leucocephala</i>	Alcedinidae	Grey-headed Kingfisher			Seen in 2011			
<i>Halcyon chelicuti</i>		Striped Kingfisher		GO-riv, SHO	Gallery forest on road to Jimma			
<i>Alcedo cristata</i>		Malachite Kingfisher		GO-riv	1			
<i>Ceyx pictus</i>		African Pygmy Kingfisher	edge of forest	KDA-GH, GO-wet	Near KDA compound, in Gojeb Wetland			
<i>Alcedo semitorquata</i>		Half-collared Kingfisher	river	GO-riv	On bridge over Gojeb River, breeding (?)			
<i>Megaceryle maxima</i>		Giant Kingfisher		GO-riv	Once			
<i>Ceryle rudis</i>		Pied Kingfisher	river	GO-riv	By Gojeb River and Gojeb Wetland			
<i>Merops pusillus</i>	Meropidae	Little Bee-eater			Widespread and common			
<i>Merops variegatus</i>		Blue-breasted Bee-eater		KDA-GH, KO	1, forest clearing on the trail to hot springs			
<i>Merops albicollis</i>		White-throated Bee-eater	farmland, wetland	GO-wet, AG	Farmland at Gojeb Wetland, Gojeb on the road to Jimma			
<i>Merops apiaster</i>		European Bee-eater		GO-wet	Several flocks seen and heard			
<i>Merops nubicus</i>		Northern Carmine Bee-eater			1, flying			
<i>Coracias glaucurus</i>	Coraciidae	Broad-billed Roller		KO	1, Komba Forest			
<i>Tockus alboterminatus</i>	Bucerotidae	Crowned Hornbill	forest	BO, KO	In forest on the trail to the hot springs, forest by Medabo Forest road, Komba Forest			

Scientific name	Family	English name	Habitat	Study sites	Distribution	Threat status	CITES Appendix	Endemism
<i>Tockus nasutus</i>		African Grey Hornbill		KDA-GH	1, overflying			
<i>Bycanistes brevis</i>		Silvery-cheeked Hornbill	forest		Widespread and common in forests			
<i>Pogoniulus chrysoconus</i>	Ramphastidae	Yellow-fronted Tinkerbird			Widespread and common in trees in villages and forests			
<i>Lybius undatus</i>		Banded Barbet		KDA-GH, KO,	1 in trees on KDA compound			near-endemic
<i>Lybius bidentata</i>		Double-toothed Barbet			Seen in 2011			
<i>Indicator indicator</i>	Indicatoridae	Greater Honey-guide		KO	1			
<i>Indicator minor</i>		Lesser Honey-guide		KDA-GH, KO, GO-riv	1 on KDA compound, some more heard in forests, e.g., Komba			
<i>Jynx torquilla</i>	Picidae	Eurasian Wryneck			Seen in 2011			
<i>Campethera nubica</i>		Nubian Woodpecker		KO	1			
<i>Dendropicos spodocephalus</i>		Grey-headed Woodpecker	forest	KO	1 in Komba Forest			
<i>Dendropicos fuscescens</i>		Cardinal Woodpecker	forest	GO-riv, BO	In gallery forest in Gojeb Wetland, in forest on the trail to the hot springs			
<i>Riparia riparia</i>	Hirundinidae	Common Sand Martin	wetland	AG	Several in mixed flocks of swallows			
<i>Riparia cincta</i>		Banded Martin		AG, GO-riv	Few in mixed flocks of swallows			
<i>Cecropis abyssinica</i>		Lesser Striped Swallow		GO-riv	A night roost at the bridge across the Gojeb River			
<i>Hirundo smithii</i>		Wire-tailed Swallow		GO-riv	Some at the bridge across the Gojeb River and at Gojeb River on the Bonga – Jimma road			
<i>Hirundo rustica</i>		Barn Swallow			Most common swallow			
<i>Psalidoprogne pristopectera</i>		Black Saw-wing		GO-riv, KO	Several flocks			
<i>Motacilla flava</i>		Yellow Wagtail	farmland, wetlands		Widespread and common on farmland and in wetlands, if there were grazed areas			
<i>Motacilla cinerea</i>		Grey Wagtail	rivers	BA, BK, KO, GO-riv	Widespread at rivers, only few specimens			
<i>Motacilla clara</i>		Mountain Wagtail		BK, GO-riv	Widespread near water			

Scientific name	Family	English name	Habitat	Study sites	Distribution	Threat status	CITES Appendix	Endemism
<i>Motacilla aguimp</i>		African Pied Wagtail			Only 1 at Gojeb River			
<i>Anthus cinnamomeus</i>		African/ Grassland Pipit	grazed areas in wetland	AG, GO-wet	In Alemgono and Gojeb Wetlands			
<i>Anthus cervinus</i>		Red-throated Pipit	wetlands	AG, GO-wet	Flocks in wetlands if there were short grazed areas			
<i>Macronyx flavicollis</i>		Abyssinian Longclaw	wetland	AG, GO-wet	At least 5 pairs in Alemgono and 5 specimens in Gojeb Wetland			endemic
<i>Coracina caesia</i>	Campephagidae	Grey Cuckoo-shrike	forest	KO, BO	In Komba Forest, recorded in 2011 in forest by Medabo Forest road			
<i>Pycnonotus barbatus</i>								
<i>ssp. schoanus</i>	Pycnonotidae	Common Bulbul			Widespread and common in villages and forests			
<i>Cossypha semirufa</i>	Turdidae	Rüppell's Robin-chat	gardens, forests		Widespread: common in gardens, less common in forests			
<i>Cossypha natalensis</i>		Red-capped Robin-chat	forest	KO	Only three times in Komba Forest			
<i>Cossypha niveicapilla</i>		Snowy-headed Robin-chat	forest	BO	Only once in the forest on the trail to the hot springs			
<i>Saxicola torquatus</i>		Common Stonechat	wetlands, farmland	AG, GO-wet, BK	In Alemgono (ssp. maura), Gojeb and Boka Wetlands, on farmland near Boka (ssp. albofasciatus)			
<i>Saxicola rubetra</i>		Whinchat	wetland	AG, GO-wet	Some in wetlands			
<i>Oenanthe pleschanka</i>		Pied Wheatear	farmland		Some on farmland			
<i>Zoothera piaggiae</i>		Abyssinian Ground Thrush	forest	KDA-GH	Near waterfall in Bonga, in the forest on trail to hot springs, in savannah at Gojeb River			
<i>Turdus olivaceus</i>		Mountain Thrush	fruiting trees		Most common thrush, very common in fruiting trees			
<i>Turdus pelios</i>		African Thrush			1 in savannah at Gojeb River			

Scientific name	Family	English name	Habitat	Study sites	Distribution	Threat status	CITES Appendix	Endemism
<i>Bradypterus cinnamomeus</i>	Sylviidae	Cinnamon Bracken Warbler	scrub, edges of forests		Commonly heard in scrub and at edges of forests			
<i>Chloropeta natalensis</i>		Dark-capped Yellow Warbler	edge of forest	BK	2, savannah by Gojeb River and at the edge of forest in Boka			
<i>Phylloscopus trochilus</i>		Willow Warbler			Singing only twice			
<i>Phylloscopus collybita</i>		Common Chiffchaff			Most common Phylloscopus warbler			
<i>Phylloscopus um-brovirens</i>		Brown Wood-land Warbler	forests	KO, BK, BO, BA	Common in for-ests: Komba, Boka, forest on the trail to the hot springs, forest by Medabo Forest road, parts of bamboo forest			
<i>Sylvia atricapilla</i>		Blackcap		BO	Mostly individuals, 1 feeding flock in the forest on the trail to the hot springs			
<i>Sylvia curruca</i>		Lesser Whitethroat			1			
<i>Cisticola cantans</i>	Cisticolidae	Singing Cisticola	edge of forest	KO, BK	2 at the edge of Komba and Boka Forests			
<i>Cisticola lugubris</i>		Ethiopian Cisticola	wetland	GO-wet	1 pair			near-endemic
<i>Cisticola robustus</i>		Stout Cisticola	wetland	GO-wet	2 pairs in Gojeb Wetland			
<i>Prinia subflava</i>		Tawny-flanked Prinia	gardens, edge of forests		Widespread: gardens, edge of forests			
<i>Camaroptera brachyura</i>		Grey-backed Camaroptera	hedges, edge of forests,		Widespread and common: hedges, edge of forests,			
<i>Melaenornis chocolatinus</i>	Muscicapidae	Abyssinian Slaty Flycatcher	gardens, edge of forests	KO, BK, AG, KDA-GH	Several around Bonga, in gardens, at edge of forests			near-endemic
<i>Melaenornis edoloioides</i>		Northern Black Flycatcher		BO, GO-riv	Also 1 flock (family ?) in gallery forest by Gojeb River on the road to Jimma			
<i>Muscicapa adusta</i>		African Dusky Flycatcher			Widespread and common			
<i>Terpsiphone viridis</i>	Monarchidae	African Paradise Flycatcher			Widespread and common			
<i>Platysteira cyanea</i>	Platysteiridae	Brown-throated Wattle-eye	forest		Moderately common in forest			

Scientific name	Family	English name	Habitat	Study sites	Distribution	Threat status	CITES Appendix	Endemism
<i>Batis minor</i>		Black-headed Batis	wooded areas, forests	KDA-GH				
<i>Turdoides leucopygia omoensis</i>	Timaliidae	White-rumped Babbler		KO, AG, GO-wet	Surroundings of Alemgono and Gojeb Wetlands, at the edge of Komba Forest			
<i>Parophasma galinieri</i>		Abyssinian Catbird	forest	KO, BK, BO	Komba and Boka Forests, near bamboo forest, forest on trail to hot springs, more often heard than seen			endemic
<i>Chalcomitra senegalensis</i>	Nectariniidae	Scarlet-chested Sunbird		KO	Some specimens near and in Bonga and at the edge of Komba forest			
<i>Nectarinia tacazze</i>		Tacazze Sunbird			Widespread and common			
<i>Cinnyris olivaceus</i>		Olive Sunbird			1			
<i>Cinnyris venustus</i>								
<i>fazoqlensis</i>		Variable Sunbird			Widespread and common if there were flowers, most common sunbird			
<i>Cinnyris cupreus</i>		Copper Sunbird		KDA-GH	Mostly near or in Bonga (e.g., KDA compound)			
<i>Zosterops polioastrus</i>	Zosteropidae	Mountain White-eye			Widespread and common			
<i>Zosterops abyssinicus</i>		Abyssinian White-eye			Village and savannah at Gojeb River on the road to Jimma			
<i>Lanius collaris</i>	Laniidae	Common Fiscal		KDA-GH, KO, BO, BK, AG	KDA compound, near Komba forest, in Boka Wetland, in Alemgono wetland			
<i>Laniarius aethiopicus</i>	Malaconotidae	Ethiopian Boubou	forest	SHO, BO, KO, BK, GO-wet	Forest near Shoriri wetland, forest by Medabo Forest road, Komba Forest, Boka Forest, forest by Gojeb Wetland			
<i>Dryoscopus gambensis</i>		Northern Puffback		SHO, BO	Widespread and common			
<i>Oriolus monacha</i>	Oriolidae	Abyssinian Black-headed Oriole			Widespread and common			

Scientific name	Family	English name	Habitat	Study sites	Distribution	Threat status	CITES Appendix	Endemism
<i>Corvus capensis</i>	Corvidae	Cape Crow	farmland	AG	Only some on farmland and at the edge of Alemgono			
<i>Corvus crassirostris</i>		Thick-billed Raven		KDA-GH, BK, BA, GO-wet, AG	Most common Corvidae			near-endemic
<i>Poeoptera stuhlmanni</i>	Sturnidae	Stuhlmann's Starling	forest	BO, SHO	2 birds in forest by Medabo Forest road, Shoriri Wetland			
<i>Onychognathus tenuirostris</i>		Slender-billed Starling		KDA-GH, KO, BO	Several flocks near waterfall in Bonga and in the forest by Medabo Forest road			
<i>Onychognathus morio</i>		Red-winged Starling		BO, GO-riv				
<i>Lamprotonis chalybaeus</i>		Greater Blue-eared Starling		GO-wet	Large flocks in Gojeb Wetland			
<i>Cinnyricinclus leucogaster</i>		Violet-backed Starling		KDA-GH, SHO	On KDA compound, savannah by Gojeb River			
<i>Pholia sharpii</i>		Sharpe's Starling	in canopy of broadleaf forests	BK, BO, BA	In canopy of broadleaf forests: Boka, forest by Medabo Forest road, forest on trail to the hot springs; in bamboo forest where there were broadleaf trees between the bamboo			
<i>Buphagus erythrorhynchus</i>		Red-billed Oxpecker		GO-wet	Accompanying cattle in Gojeb Wetland			
<i>Passer swainsonii</i>	Passeridae	Swainson's Sparrow	villages, farmland		Widespread in villages			
<i>Ploceus baglafecht</i>	Ploceidae	Baglafecht Weaver	villages, farmland, edge of forest		In villages, on farmland and at edges of forest and wetlands			
<i>Ploceus ocularis</i>		Spectacled Weaver	near villages	KDA-GH	Single pairs near villages			
<i>Ploceus cucullatus</i>		Village Weaver			Most common weaver			
<i>Euplectes ardens</i>		Red-collared Widowbird	wetlands	AG, SHO, GO-wet	In Alemgono, Gojeb Wetlands			
<i>Euplectes axillaris</i>		Fan-tailed Widowbird	wetlands	AG, SHO, GO-wet	In Alemgono, Gojeb Wetlands			

Scientific name	Family	English name	Habitat	Study sites	Distribution	Threat status	CITES Appendix	Endemism
<i>Estrilda rhodopyga</i>	Estrildidae	Crim-son-rumped Waxbill	farmland, edge of forest	KDA-GH, KO				
<i>Estrilda astrild</i>		Common Waxbill	farmland, edge of forest	BK	On farmland at the edge of Boka Forest			
<i>Coccyzygia quartinia</i>		Yellow-bellied Waxbill		KO	Edge of Komba Forest			
<i>Uraeginthus bengalus</i>		Red-cheeked Cordon-bleu	villages, farmland		Widespread and common in villages and on farmland			
<i>Lagonosticta senegala</i>		Red-billed Firefinch	villages, farmland		Widespread and common in villages and on farmland			
<i>Lonchura cucullata</i>		Bronze Mannikin			Widespread and common			
<i>Lonchura bicolor</i>		Black-and-white Mannikin	wetland, edge of forest	KO, AG, GO-wet	Pairs and small flocks in wetland and at edge of forest			
<i>Vidua macroura</i>		Pin-tailed wydah	farmland					
<i>Vidua chalybeata</i>	Viduidae	Village Indigobird	villages		Few in villages where there were red-billed firefinches			
<i>Serinus citrinelloides</i>	Fringillidae	African Citril			Widespread and common			
<i>Serinus mozambicus</i>		Yellow-fronted Canary	forest, savannah	BA	In bamboo forest and savannah at Gojeb River			
<i>Serinus l eucopygius</i>		White-rumped Seedeater	savannah		Savannah at Gojeb River			
<i>Serinus striolatus</i>		Streaky Seedeater		KDA-GH	Around Bonga, surroundings of Alemgono and Gojeb Wetlands			
<i>Serinus tristriatus</i>		Brown-rumped Seedeater			Only 1			

7.2. Photos



Figure 1: The colobus monkey (*Colobus guereza*) is one of the primary preys of the African Crowned Eagle (*Stephanoaetus coronatus*) (photo: Holger Meinig)



Figure 2: The Silvery-cheeked Hornbill (*Bycanistes brevis*) is bound to old fruit trees for nesting and feeding (photo: Bernhard Walter)



Figure 3: The Black Crowned Crane (*Balearica pavonina*) is a proposed flagship species for the wetlands (photo: Bernhard Walter)



Figure 4: Black Crowned Crane with chick in the Alemgono Wetland (photo: Wolfgang Beisenherz)



Figure 5: The endangered Wattled Crane (*Bugeranus carunculatus*) was confirmed as a breeding bird in Alemgono Wetland (photo: Bernhard Walter)



Figure 6: The Abyssinian Longclaw (*Macronyx flavicollis*) is endemic to the Ethiopian high-altitude wetlands (photo: Bernhard Walter)



Figure 7: The near-endemic Rouget's Rail (*Rougetius rougetii*) can be found in swampy areas and ditches with some coverage (photo: Bernhard Walter)



Figure 8: The Woolly-necked Stork (*Ciconia melanocephala*) appears in the wetlands consuming amphibians and crickets (photo: Bernhard Walter)



Figure 9: The Half-collared Kingfisher (*Alcedo semitorquata*) was found at the Gojeb River near the bridge (photo: Bernhard Walter)



Figure 10: The endemic Wattled Ibis (*Bostrychia carunculata*) (photo: Bernhard Walter)

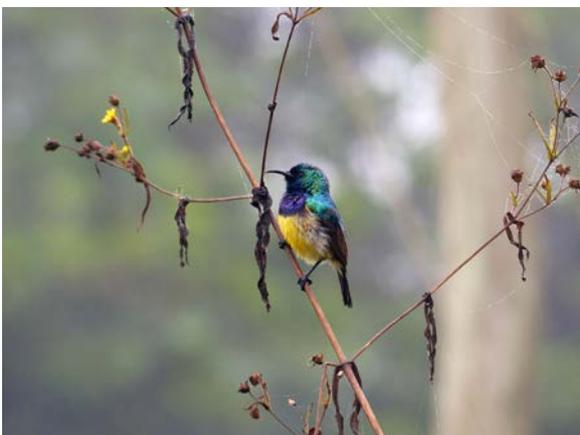


Figure 11: Variable Sunbird (*Cinnyris venustus fazoqlensis*) (photo: Bernhard Walter)



Figure 12: Rüppell's Robin-chat (*Cossypha semirufa*) (photo: Bernhard Walter)



Figure 13: African Paradise Flycatcher (*Terpsiphone viridis*) (photo: Bernhard Walter)



Figure 14: Banded Barbet (*Lybius undatus*) (photo: Bernhard Walter)



Figure 15: The endemic Yellow-fronted Parrot (*Poicephalus flavifrons*) (photo: Bernhard Walter)

