

Avifauna Found in the State Reserved Forest Land of Trongsa District, BhutanPhub Gyeltshen¹, Chojay Norbu² and Kado Rinchen³**Abstract**

The presence of pristine ecosystems over a wide altitudinal range is a major factor in making Trongsa district biologically diverse. The country is home to 748 bird species. As much as 44% of birds are said to be found in the State Reserved Forest Land of Trongsa district. The district has been identified as an Important Bird Area of the country. We present a comprehensive list of avifauna found inside the Reserved Forest areas of the district, and the bird species list is based on field observations made in between 2017-2019. We report 330 species of birds belonging to 18 orders with 59 families out of which 321 species are least concerned and 9 are globally threatened species. Among the recorded species, 41% are uncommon, 36% common and 23% are rare in the district. Migratory status showed that 121 species are resident, 114 altitudinal migrants, 27 summer visitors, 50 winter visitors, 16 passage migrants and two species are said to be vagrants. The present study reveals the richness of birds and conservation importance of habitats outside protected areas and biological corridors are quintessential for conservation of birds in the region.

Keywords: avifauna, Bhutan, checklist, conservation**Introduction**

Birds are beautiful fauna which co-exist with other living organisms and play a vital role in maintaining healthy ecosystems. Birds are described as 'Feathered Bipeds' (Ali, 1941). Base-line information is pre-requisite for conservation of an ecosystem and to understand the consequences of habitat destruction and deterioration. Besides the ecosystem conservation, monitoring of birds helps us to understand the effects

of climate change, to take appropriate conservation intervention and to identify priority areas for conservation. Study of birds is gaining momentum in Bhutan. Bhutan's rugged mountainous landscape located in the Eastern Himalayan region is one of the significant parts of the Eastern Himalaya Endemic Bird Area (Stattersfield *et al.*, 1998; Bishop, 1999).

Captain R.B. Pemberton, accompanied by Lieutenant Blake and Dr. William Griffith (medical officer and botanist) made the first ever explorations of birds in Bhutan during their mission in 1837. They said to have collected over 200 specimens of birds from Bhutan. Unfortunately, the collected specimens were without field collection details which are of little help in tracing the locations and exact collection numbers made from the country

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(Ludlow and Kinnear, 1937; Ali, Biswas and Ripley, 1996). Frank Ludlow and George Sheriff collected about 1,700 bird skin specimens from Bhutan, Sikkim and Tibet in 1933-1934 of which the major collected specimens are from Bhutan. The collection of 3,218 specimens consisting of 481 species between February 1966 and December 1973 was another major avian study made in the country. During their nine consecutive avifaunal surveys in 1966-1973, they reported 516 species of birds known to occur in Bhutan (Ali, Biswas and Ripley, 1996). Consequently, Clements (1992) added 22 species as new records for Bhutan during his two successive trips to Bhutan in 1986 and 1990. Inskipp (1993) added 54 species as new records for Bhutan during their avifaunal surveys conducted in Bhutan in 1991 and 1993. Three new species: *Fulica atra*, *Locustella seelohmi* and *Dendronanthus indicus* were added from the survey conducted in some parts of the western and central Bhutan

(Tymstra *et al.*, 1994). Bishop (1999) reported 62 species of birds including the globally threatened species; *Aceros nipalensis* and *Sitta formosa*, for which few or no previous records had been made in the country. The first comprehensive field guide, 'Birds of Bhutan' by Inskipp, Inskipp & Grimmett (1999) recorded 616 species for Bhutan, of which 464 species were resident to Bhutan, ca.40 species were summer visitors or partial migrants to Bhutan, ca.50 species were winter visitors migrating far from Palearctic region, ca.10 were restricted-range species, and 14 were globally threatened species. Choudhury (2006) observed nine threatened species during his visit to Bhutan between 1985 and 2006 of which *Leptoptilos javanicus*, *Cairinas cutulata*, *Merops philippinus*, and *Ploceus manyar* were new records for the country. *Callacanthus burtoni* is another addition recorded by Bishop (2008). Feijen and Feijen (2008) reported that there are 380 breeding bird species out of which 184 are

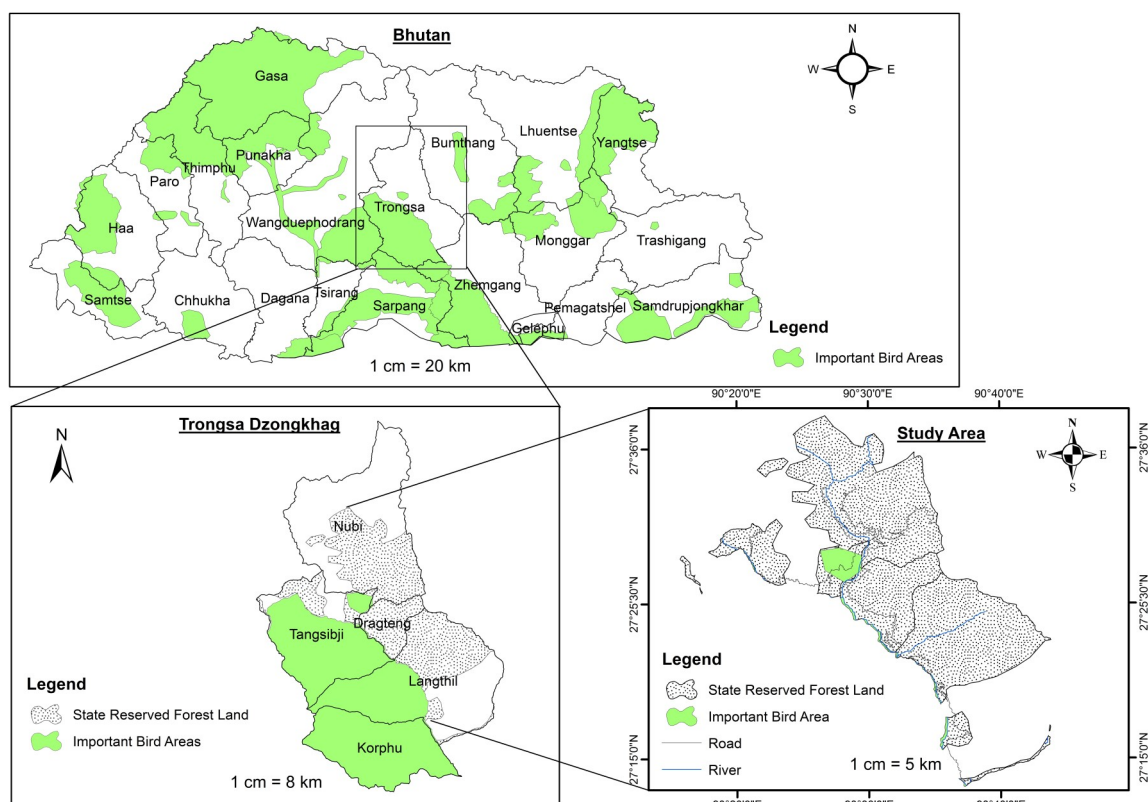


Figure 1: Map of study area showing State Reserved Forest Land of Trongsa district

confirmed breeders, 40 possible and 156 probable breeders in Bhutan.

Birds of Bhutan and the Eastern Himalayas (Grimmett *et al.*, 2019), which is the most recent study of birds in the region, covers 814 species of which 736 species are said to be found in Bhutan. 'Birds of Bhutan' (Bhutan Birdlife Society), a social media forum in Facebook has recorded 748 species of birds for Bhutan which are confirmed by ornithologists Dr. Tim Inskipp and Sherub. Avibase, the world bird database (Lepage, 2019) has a checklist of 538 species for Trongsa district inclusive of the areas falling in the National Parks and Biological Corridors. This checklist has 330 species recorded in the State Reserved Forest Land (SRFL) excluding Parks and Corridors. However, the number of birds inside the SRFL of the district is likely to be substantially higher than 330 species considering the substantial studies on diverse habitats, distribution and feeding guilds of birds when considered collectively.

In this study, we present the most comprehensive list of avian diversity found inside the SRFL of the district, which enable us to understand the diversity of avifauna, and their conservation status with reference to the IUCN Red List status in order to gain conservation actions, support sustainable management of bird habitats, and to provide baseline information for future conservation programmes. This study also aims to provide information on local status to keep track of any changes in species composition and distributional status in the changed habitats. Moreover, it provides a clear understanding of the avian diversity outside protected areas and biological corridors and is quintessential to focus in SRFL to have better conservation and management interventions.

Materials and Method

Study area

Trongsa district is located in the heart of the country between 27°45' to 27°09'N and 90°18'

to 90°42'E, an area of 1813.71 km² with an elevation ranging from 500-4800 meter above sea level (Figure 1). Approximately, 70% of the district's total land area is under protected areas and biological corridors. The major vegetation type comprises of alpine scrub, bluepine, chirpine, fir, mixed conifer, shrubs, meadows, broadleaved forests, agriculture land and plantations (FRMD, 2016). The most dominant forest types in the district are broadleaved forests with 51% followed by mixed conifer with 26%. The average annual temperature to rainfall is 14⁰ C and 1956 mm accompanied by warm and rainy monsoon and cold winters. Attributable to varied climatic conditions and large intake broadleaved forest types made the district biologically diverse.

Survey and data collection

The presence of birds in the study area were confirmed mostly through opportunistic encounters during field tours to different locations at different times, and occasional birding at an elevation ranging from 500 m (Langthel) to 4000 m (Yutongla) from 2017-2019. Some birds were recorded during tiger monitoring with Gelephu Tiger Centre staff in 2019, forest management inventories (Local Forest Management Plan, 2019), Heritage forest survey, 2018), and community forest survey (Samcholing CFMP, 2017). The observations were focused on the State Reserved Forest Land (SRFL) covering diverse habitats comprising forest, grassland, open and scrub forest, cliffs and rocky areas, water bodies, agriculture fields, plantations, human habitation areas, and along the road where the conservation focus has been neglected compared to protected areas. Observations were based on visual identification using binoculars Nikon 10 x 42 mm and Olympus 8x 40 mm magnifications, calls, and photographs taken using Nikon D3400 with 75-300 mm lens, Cannon 60D with 75-300mm lens and Cannon DC 75-200 mm lens DSLR cameras during the field encountered. Most of the birds were identified and recorded in the field while unidentified birds from the field

were confirmed using (Inskipp *et al.*, 1999; Grimmett *et al.*, 1999, 2011; Grimmett *et al.*, 2019), and the bird calls were confirmed using Avibase bird call (2019). For taxonomy and nomenclature of bird species recorded in the district, we followed (Grimmett *et al.*, 2019). The threatened status provided in this checklist is based on International Union for Conservation of Nature (IUCN) *Red List of Threatened Species* (2019). *Migratory* status was based on field records following Inskipp *et al.* (1999) and Grimmett *et al.* (2019); AM – Altitudinal migrants, R – Residents, WV – Winter visitors, PM – Passage migrants, V – vagrants, and SV – Summer visitors. Local abundance status of

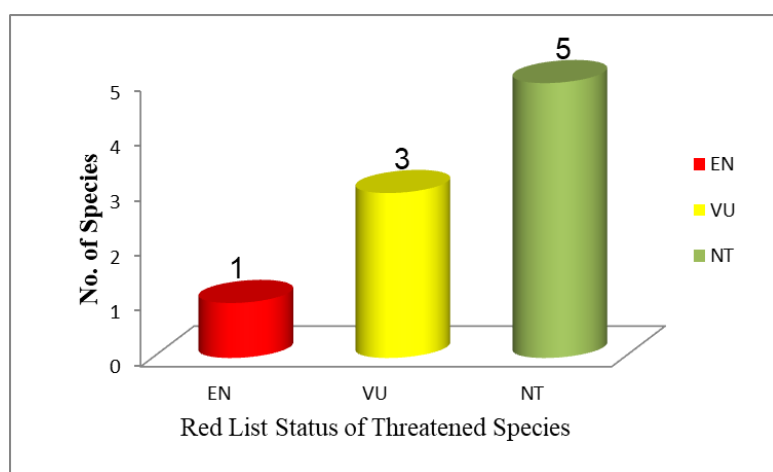
birds were ranked into Common (C – frequently sightings), Uncommon (UC – 5-10 times sightings), and Rare (R – 2-3 times sighting) based on frequency and abundant of avifauna encountered during our investigation over the years. Cumulative numbers of species recorded were analyzed using Microsoft Excel to present the different categories.

Results and Discussion

In this present study, we report a total of 330 species belonging to 199 genera for Trongsa Dzongkhag. The majority of the recorded birds were residents and altitudinal migrants in the

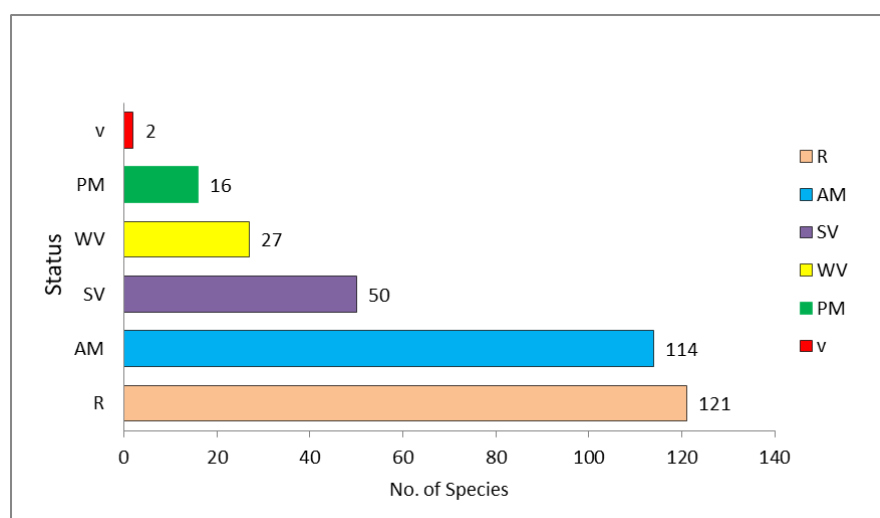
district. The checklist represents 44% of the country's bird diversity. Passeriformes is the most diverse order with 227 species in 33 families followed by Piciformes with 16 species in two families, Accipitriformes (15/1), Cuculiformes (11/1), Galliformes (10/1), Columbiformes (9/1) and Charadriiformes (7/6). We have recorded only single species and family in Podicipediformes, Suliformes and Caprimulgiformes orders for the district. Among the ob-

served family, the most dominated groups were Timaliidae family with 47 species in 27 genera followed by family Muscicapidae with 33 species in 17 genera, Sylviidae



EN – Endangered, VU – Vulnerable NT – Near Threatened, LC – Least Concern

Figure 2: Red List status of avian in the study area



V-Vagrant
PM-Passage Migrant
WV-Winter Visitor
SV-Summer Visitor
AM-Altitudinal Migrant
R-Resident

Figure 3: Migratory status of the avian for Trongsa district

(18/5), Fringillidae (14/7), Accipitridae (14/10), Picidae (13/9) and Turdidae with 13 species in 15 genera (Table 1).

We recorded 12 species of *Garrulax* (Laughingthrushes) under the same genus, *Phylloscopus* (Warblers) 10 species, 6 species each in *Dicrurus* (Drongos) and *Ficedula* (Flycatchers), and 5 species each in the genera *Accipiter*, *Aethopyga* (Sunbirds), and *Carpodacus* (Rosefinches). Among the recorded species under different genera, Warblers were the most diverse group which comprises of 18 species followed by Flycatchers (13 species), Babblers (12 species), Laughing thrushes (11 species), 10 species each in Tits and Finches; Thrushes and Cuckoos (9 species), Bulbuls (8 species), Woodpeckers (7 species), Drongos (6 species) and 5 species each in Sunbirds, Eagles, Pigeons, Redstarts, Fulvettas, Yuhinas and Robins (Table 1).

As per IUCN (2019) Red List of Threatened Species, nine recorded species in Trongsa are threatened species. Steppe Eagle (*Aquila nipalensis*) is Endangered followed by Rufous-necked Hornbill (*Aceros nipalensis*), Great Hornbill (*Buceros bicornis*), and Wreathed Hornbill (*Rhyticeros undulatus*) – Vulnerable; Himalayan Vulture (*Gyps himalayensis*), River Lapwing (*Vanellus duvaucelii*), Wards Trogon (*Harpactes wardi*), Satyr Tragopan (*Tragopan satyra*), Yellow-rumped Honeyguide (*Indicator xanthonotus*) – Near Threatened and remaining 321 species are least Concerned in the district (Table 1, Figure 2). In terms of migratory status, 143 species were found to be residential at varying altitudes, 118 species were altitudinal migrants, 32 species were summer visitors, 20 species were winter visitors, 15 species were passage migrants and two species were vagrant in the district (Figure 3). With regards to local status, 77 species (23%) were rare, 119 species (36%) were common and 134 species of birds representing 41% of the recorded species were uncommon exhibiting seasonal or altitudinal migration (Figure 4). The current study shows that the areas outside protected areas having heterogeneous habitats,

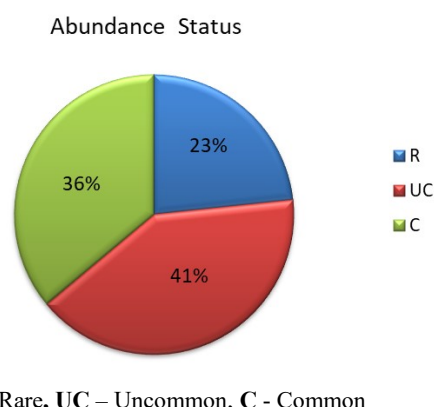


Figure 4: Visual abundance status of avian in the study area

topography, elevation, climate, and food availability influences the diversity and richness of birds in the district. A large number of species have been recorded during the summer and less in winter. Massive clearing of forests for developmental activities and anthropogenic activities such as the extraction of forest resources for rural and commercial purposes have been threatening the birds present in the fragmented forest floor of the district.

Conclusion

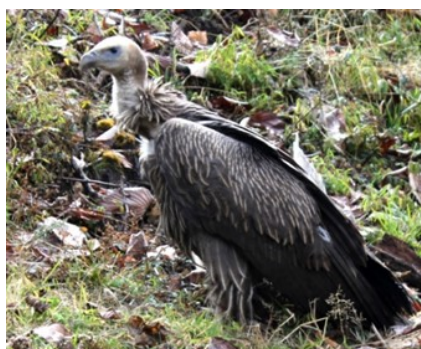
We recorded 330 species representing 44% out of 748 birds documented in the country including nine globally threatened species for the district. While this study claims to publish most comprehensive checklist of birds in Trongsa, it definitely demands further bird surveys in the Dzongkhag. Subsequent surveys may focus to understand avian distribution pattern, habitat use, richness and diversity of both fauna and flora for implementing better conservation actions.

Acknowledgement

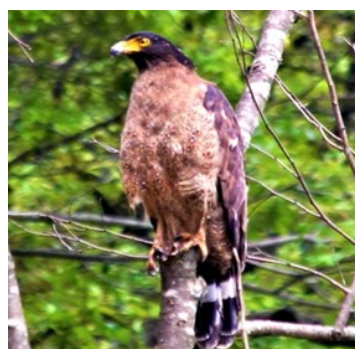
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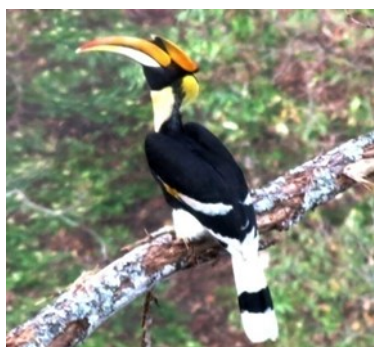
Himalayan Vulture



Crested Serpent Eagle



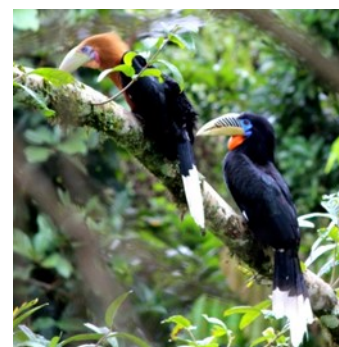
Mountain Hawk Eagle



Great Hornbill



Wreathed Hornbill



Rufous-necked Hornbill



Snow Pigeon



Speckled Wood Pigeon



White-throated Kingfisher



Blue-bearded Bee-eater



Green-billed Malkoha



Lesser Coucal



Himalayan Cuckoo



Common Kestrel



River Lapwing



Red-headed Trogon



Blood Pheasant



Satyr Tragopan



Orange-bellied Leafbird



Eurasian Jay



Scaly-breasted Munia



Brown Bullfinch



White-winged Grosbeak



Grandala



Oriental Magpie Robin



Rufous-bellied Niltava



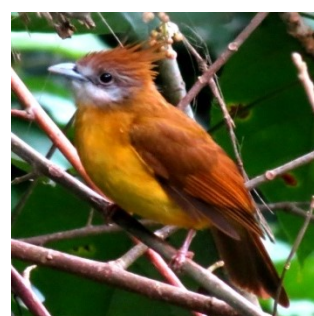
Verditer Flycatcher



Crimson Sunbird



Sultan Tit



White-throated Bulbul



Yellow-bellied Fantail



White-tailed Nuthatch



Grey-hooded Warbler



Bhutan Laughingthrush



White-browed Scimitar Babbler



White-browed Fulvetta



Whiskered Yuhina



Lesser Rufous-headed Parrotbill



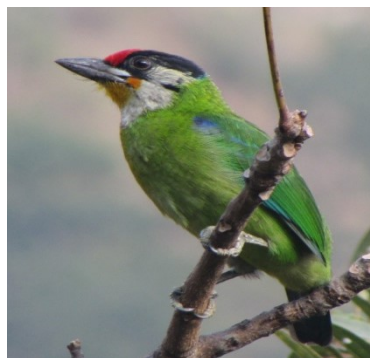
Oriental White-eye



Black-crowned Night Heron



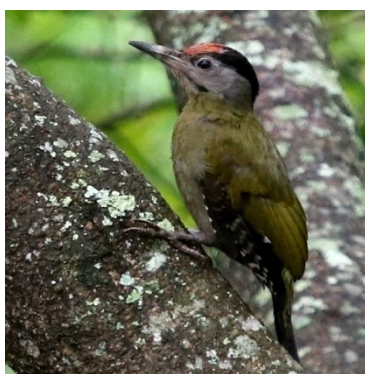
Blue-throated Barbet



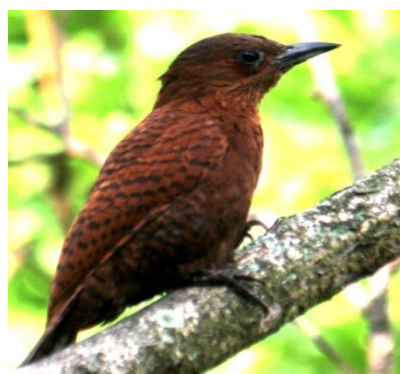
Golden-throated Barbet



Lesser Yellownape



Grey-headed Woodpecker



Rufous Woodpecker



Speckled Piculet



Great Crested Grebe



Asian Barred Owlet

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Table 1: Checklist of avifauna in the SRFL of Trongsa District, Bhutan

Common Name	Scientific Name	IUCN	Status	ABUN
Family: ACCIPITRIDAE				
Oriental Honey-buzzard	<i>Pernis ptilorhynchus</i>	LC	PM	R
Black Kite	<i>Milvus migrans</i>	LC	PM	R
Black Eagle	<i>Ictinaetus malayensis</i>	LC	R	UC
Himalayan Buzzard	<i>Buteo burmanicus</i>	LC	WV	UC
Northern Goshawk	<i>Accipiter gentilis</i>	LC	R	UC
Crested Goshawk	<i>Accipiter trivirgatus</i>	LC	R	UC
Shikra	<i>Accipiter badius</i>	LC	R	UC
Eurasian Sparrowhawk	<i>Accipiter nisus</i>	LC	AM	UC
Rufous-bellied Eagle	<i>Lophotriorchis kienerii</i>	LC	R	UC
Steppe Eagle	<i>Aquila nipalensis</i>	EN	PM	R
Besra	<i>Accipiter virgatus</i>	LC	AM	UC
Himalayan Vulture	<i>Gyps himalayensis</i>	NT	R	UC
Crested Serpent Eagle	<i>Spilornis cheela</i>	LC	SV	UC
Mountain Hawk Eagle	<i>Nisaetus nipalensis</i>	LC	R	UC
Osprey	<i>Pandion haliaetus</i>	LC	WV	R
Family: ANATIDAE				
Eurasian wigeon	<i>Anas penelope</i>	LC	PM	R
Gadwall	<i>Anas strepera</i>	LC	PM	R
Goosander	<i>Mergus merganser</i>	LC	WV	R
Ruddy Shelduck	<i>Tadorna ferruginea</i>	LC	WV	UC
Common Shelduck	<i>Tadorna tadorna</i>	LC	PM	R
Family: APODIDAE				
Himalayan Swiftlet	<i>Collocalia brevirostris</i>	LC	R	C
White-throated Needletail	<i>Hirundapus caudacutus</i>	LC	SV	UC
Fork-tailed Swift	<i>Apus pacificus</i>	LC	SV	UC
House Swift	<i>Apus (affinis) nipalensis</i>	LC	R	UC
Family: BUCEROTIDAE				
Great Hornbill	<i>Buceros bicornis</i>	VU	SV	R
Wreathed Hornbill	<i>Rhyticeros undulatus</i>	VU	SV	R
Rufous-necked Hornbill	<i>Aceros nipalensis</i>	VU	SV	R
Family: UPUPIDAE				
Common Hoopoe	<i>Upupa epops</i>	LC	AM	C
Family: CAPRIMULGIDAE				
Grey Nightjar	<i>Caprimulgus jotaka</i>	LC	R	C
Family: BURHINIDAE				
Indian Thick-Knee	<i>Burhinus indicus</i>	LC	R	R
Family: COLUMBIDAE				
Emerald Dove	<i>Chalcophaps indica</i>	LC	R	R
Barred Cuckoo Dove	<i>Macropygia unchall</i>	LC	SV	UC
Common pigeon	<i>Columba livia</i>	LC	R	C
Oriental Turtle Dove	<i>Streptopelia orientalis</i>	LC	R	C
Snow Pigeon	<i>Columba leuconota</i>	LC	AM	R
Speckled Wood Pigeon	<i>Columba hodgsonii</i>	LC	AM	UC
Mountain Imperial Pigeon	<i>Ducula badia</i>	LC	R	UC
Spotted Dove	<i>Stigmatopelia chinensis</i>	LC	SV	UC
Wedge-tailed Green Pigeon	<i>Treron sphenurus</i>	LC	AM	UC
Family: ALCEDINIDAE				
Common Kingfisher	<i>Alcedo atthis</i>	LC	AM	UC
Crested Kingfisher	<i>Megaceryle lugubris</i>	LC	R	C

Checklist of avifauna in the SRFL of Trongsa District, Bhutan (Cont...)				
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	LC	AM	UC
Family: CORACIIDAE				
Indian Roller	<i>Coracias benghalensis</i>	LC	R	UC
Family: MEROPIDAE				
Blue-bearded Bee-eater	<i>Nyctyornis athertoni</i>	LC	R	R
Family: CUCULIDAE				
Lesser Coucal	<i>Centropus bengalensis</i>	LC	R	R
Indian Cuckoo	<i>Cuculus micropterus</i>	LC	SV	UC
Common Hawk Cuckoo	<i>Hierococcyx varius</i>	LC	SV	UC
Asian Emerald Cuckoo	<i>Chrysococcyx maculatus</i>	LC	SV	UC
Drongo Cuckoo	<i>Surniculus lugubris</i>	LC	SV	UC
Green-billed Malkoha	<i>Rhopodytes tristis</i>	LC	R	R
Himalayan Cuckoo	<i>Cuculus saturatus</i>	LC	SV	UC
Grey-bellied Cuckoo	<i>Cacomantis passerinus</i>	LC	SV	R
Large Hawk Cuckoo	<i>Hierococcyx sparveroides</i>	LC	SV	UC
Eurasian Cuckoo	<i>Cuculus canorus</i>	LC	SV	UC
Lesser Cuckoo	<i>Cuculus poliocephalus</i>	LC	SV	UC
Family: FALCONIDAE				
Eurasian Hobby	<i>Falco subbuteo</i>	LC	PM	R
Oriental Hobby	<i>Falco severus</i>	LC	SV	R
Common Kestrel	<i>Falco tinnunculus</i>	LC	R	UC
Family: CHARADRIIDAE				
River Lapwing	<i>Vanellus duvaucelii</i>	NT	R	R
Family: GLAREOLIDAE				
Small Pratincole	<i>Glareola lactea</i>	LC	SV	R
Family: LARIDAE				
Brown-headed Gull	<i>Chroicocephalus brunnicephalus</i>	LC	PM	R
Family: RECURVIROSTRIDAE				
Ibisbill	<i>Ibidorhyncha struthersii</i>	LC	WV	R
Family: SCOLOPACIDAE				
Common Sandpiper	<i>Actitis hypoleucos</i>	LC	WV	R
Solitary Snipe	<i>Gallinago solitaria</i>	LC	WV	R
Family: PHASIANIDAE				
Snow Partridge	<i>Lerwa Lerwa</i>	LC	AM	R
Rufous-throated Partridge	<i>Arborophila rufogularis</i>	LC	R	R
Red-headed Trogon	<i>Harpactes erythrocephalus</i>	LC	SV	R
Ward's Trogon	<i>Harpactes wardi</i>	NT	SV	R
Blood Pheasant	<i>Ithaginis cruentus</i>	LC	R	R
Hill Partridge	<i>Arborophila torqueola</i>	LC	R	C
Kalij Pheasant	<i>Lophura leucomelanos</i>	LC	R	C
Red Junglefowl	<i>Gallus gallus</i>	LC	R	UC
Satyr Tragopan	<i>Tragopan satyra</i>	NT	R	R
Himalayan Monal	<i>Lophophorus impejanus</i>	LC	R	R
Family: RALLIDAE				
Eurasian Coot	<i>Fulica atra</i>	LC	WV	R
Black-tailed Crake	<i>Porzana bicolor</i>	LC	SV	R
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	LC	R	R
Family: ALAUDIDAE				
Oriental Skylark	<i>Alauda gulgula</i>	LC	WV	UC
Slaty-bellied Tesia	<i>Tesia olivea</i>	LC	AM	C
Chestnut-headed Tesia	<i>Oligura castaneocoronata</i>	LC	AM	C

Checklist of avifauna in the SRFL of Trongsa District, Bhutan (Cont...)

Grey-bellied Tesia	<i>Tesia cyaniventer</i>	LC	AM	C
Family: CAMPEPHAGIDAE				
Black-winged Cuckooshrike	<i>Coracina melaschistos</i>	LC	AM	C
Grey-chinned Minivet	<i>Pericrocotus solaris</i>	LC	AM	UC
Scarlet Minivet	<i>Pericrocotus speciosus</i>	LC	AM	C
Short-billed Minivet	<i>Pericrocotus brevirostris</i>	LC	AM	UC
Long-tailed Minivet	<i>Pericrocotus ethologus</i>	LC	R	C
Family: CERTHIIDAE				
Brown-throated Treecreeper	<i>Certhia discolor</i>	LC	AM	UC
Rusty-flanked Treecreeper	<i>Certhia nipalensis</i>	LC	AM	UC
Family: CHLOROPSEIDAE				
Orange-bellied Leafbird	<i>Chloropsis hardwickii</i>	LC	R	C
Family: CINCLIDAE				
White-throated Dipper	<i>Cinclus cinclus</i>	LC	WV	R
Brown Dipper	<i>Cinclus pallasii</i>	LC	AM	C
Family: CISTICOLIDAE				
Mountain Tailorbird	<i>Phyllergates cucullatus</i>	LC	AM	UC
Common Tailorbird	<i>Orthotomus sutorius</i>	LC	R	UC
Grey-breasted Prinia	<i>Prinia hodgsonii</i>	LC	R	R
Rufescent Prinia	<i>Prinia rufescens</i>	LC	R	UC
Striated Prinia	<i>Prinia crinigera</i>	LC	R	C
Black-throated Prinia	<i>Prinia atrogularis</i>	LC	R	UC
Family: CORVIDAE				
Eurasian Magpie	<i>Pica pica</i>	LC	WV	R
Yellow-billed Blue Magpie	<i>Urocissa flavirostris</i>	LC	R	C
Common Green Magpie	<i>Cissa chinensis</i>	LC	R	UC
Spotted Nutcracker	<i>Nucifraga caryocatactes</i>	LC	R	C
Eurasian Jay	<i>Garrulus glandarius</i>	LC	R	UC
Grey Treepie	<i>Dendrocitta formosae</i>	LC	R	C
House Crow	<i>Corvus splendens</i>	LC	R	R
Large-billed Crow	<i>Corvus macrorhynchos</i>	LC	R	C
Red-billed Chough	<i>Pyrrhocorax pyrrhocorax</i>	LC	R	R
Family: DICAETIDAE				
Fire-breasted Flowerpecker	<i>Dicaeum ignipectus</i>	LC	AM	UC
Plain Flowerpecker	<i>Dicaeum minullum</i>	LC	R	UC
Family: DICRURIDAE				
Black Drongo	<i>Dicrurus macrocercus</i>	LC	AM	C
Bronzed Drongo	<i>Dicrurus aeneus</i>	LC	R	UC
Crow-billed Drongo	<i>Dicrurus annectens</i>	LC	R	UC
Lesser Racket-tailed Drongo	<i>Dicrurus remifer</i>	LC	R	C
Hair-crested Drongo	<i>Dicrurus hottentottus</i>	LC	SV	UC
Ashy Drongo	<i>Dicrurus leucophaeus</i>	LC	AM	C
Family: EMBERIZIDAE				
Little Bunting	<i>Emberiza pusilla</i>	LC	PM	UC
Crested Bunting	<i>Melophus lathami</i>	LC	SV	UC
Family: ESTRILDIDAE				
White-rumped Munia	<i>Lonchura striata</i>	LC	R	R
Scaly-breasted Munia	<i>Lonchura punctulata</i>	LC	AM	R
Family: FRINGILLIDAE				
Beautiful Rosefinch	<i>Carpodacus pulcherrimus</i>	LC	AM	R
Brown Bullfinch	<i>Pyrrhula nipalensis</i>	LC	SV	UC

Checklist of avifauna in the SRFL of Trongsa District, Bhutan (Cont...)

Common Rosefinch	<i>Carpodacus erythrinus</i>	LC	AM	UC
Plain Mountain Finch	<i>Leucosticte nemoricola</i>	LC	WV	UC
Red-fronted Rosefinch	<i>Carpodacus puniceus</i>	LC	SV	R
Red-headed Bullfinch	<i>Pyrrhula erythrocephala</i>	LC	AM	C
Streaked Rosefinch	<i>Carpodacus rubicilloides</i>	LC	AM	R
Dark-breasted Rosefinch	<i>Carpodacus nipalensis</i>	LC	AM	UC
Yellow-breasted Greenfinch	<i>Carduelis spinoides</i>	LC	AM	UC
Scarlet Finch	<i>Haematospiza sipahi</i>	LC	AM	C
Red Crossbill	<i>Loxia curvirostra</i>	LC	SV	UC
Collared Grosbeak	<i>Mycerobas affinis</i>	LC	SV	UC
White-winged Grosbeak	<i>Mycerobas carnipes</i>	LC	AM	UC
Spot-winged Grosbeak	<i>Mycerobas melanozanthos</i>	LC	AM	UC
Family: HIRUNDINIDAE				
Barn Swallow	<i>Hirundo rustica</i>	LC	SV	UC
Nepal House Martin	<i>Delichon nipalense</i>	LC	AM	UC
Plain Martin	<i>Riparia paludicola</i>	LC	SV	UC
Asian House Martin	<i>Delichon dasypus</i>	LC	SV	C
Red-rumped Swallow	<i>Cecropis daurica</i>	LC	SV	UC
Family: LANIIDAE				
Bar-winged Flycatcher-Shrike	<i>Hemipus picatus</i>	LC	R	UC
Long-tailed Shrike	<i>Lanius schach</i>	LC	AM	C
Brown Shrike	<i>Lanius cristatus</i>	LC	WV	UC
Grey-backed Shrike	<i>Lanius tephronotus</i>	LC	AM	C
Family: MOTACILLIDAE				
Rosy Pipit	<i>Anthus roseatus</i>	LC	AM	UC
Olive-backed Pipit	<i>Anthus hodgsoni</i>	LC	AM	C
Citrine Wagtail	<i>Motacilla citreola</i>	LC	PM	R
Grey Wagtail	<i>Motacilla cinerea</i>	LC	WV	UC
White Wagtail	<i>Motacilla alba</i>	LC	R	C
Family: MUSCICAPIDAE				
Grandala	<i>Grandala coelicolor</i>	LC	WV	R
Grey Bushchat	<i>Saxicola ferreus</i>	LC	AM	C
Common Stonechat	<i>Saxicola torquatus</i>	LC	WV	C
Himalayan Bluetail	<i>Tarsiger rufilatus</i>	LC	AM	UC
Plumbeous Water Redstart	<i>Rhyacornis fuliginosa</i>	LC	AM	C
White-capped Redstart	<i>Chaimarrornis leucocephalus</i>	LC	AM	C
Blue-fronted Redstart	<i>Phoenicurus frontalis</i>	LC	WV	C
Black Redstart	<i>Phoenicurus ochruros</i>	LC	WV	UC
Hodgson's Redstart	<i>Phoenicurus hodgsoni</i>	LC	WV	C
Oriental Magpie Robin	<i>Copsychus saularis</i>	LC	R	UC
Golden Bush Robin	<i>Tarsiger chrysaeus</i>	LC	SV	UC
White-tailed Robin	<i>Myiomela leucura</i>	LC	AM	UC
Indian Blue Robin	<i>Luscinia brunnea</i>	LC	SV	UC
Indian Robin	<i>Saxicoloides fulicatus</i>	LC	V	R
Slaty-backed Forktail	<i>Enicurus schistaceus</i>	LC	R	UC
Spotted Forktail	<i>Enicurus maculatus</i>	LC	AM	C
Little Forktail	<i>Enicurus scouleri</i>	LC	AM	C
Small Niltava	<i>Niltava macgrigoriae</i>	LC	AM	C
Large Niltava	<i>Niltava grandis</i>	LC	AM	C
Rufous-bellied Niltava	<i>Niltava sundara</i>	LC	AM	UC
Dark-sided Flycatcher	<i>Muscicapa sibirica</i>	LC	SV	C

Checklist of avifauna in the SRFL of Trongsa District, Bhutan (Cont...)

Taiga Flycatcher	<i>Ficedula albicilla</i>	LC	WV	R
Ferruginous Flycatcher	<i>Muscicapa ferruginea</i>	LC	SV	UC
Slaty-blue Flycatcher	<i>Ficedula tricolor</i>	LC	AM	C
Little Pied Flycatcher	<i>Ficedula westermanni</i>	LC	AM	C
Pale Blue Flycatcher	<i>Cyornis unicolor</i>	LC	AM	C
Red-breasted Flycatcher	<i>Ficedula parva</i>	LC	V	UC
Asian Brown Flycatcher	<i>Muscicapa dauurica</i>	LC	SV	UC
Blue-throated Blue Flycatcher	<i>Cyornis rubeculoides</i>	LC	SV	UC
Rufous-gorgeted Flycatcher	<i>Ficedula strophliata</i>	LC	AM	C
Ultramarine Flycatcher	<i>Ficedula supercilialis</i>	LC	SV	C
Grey-headed Canary Flycatcher	<i>Culicicapa ceylonensis</i>	LC	AM	C
Verditer Flycatcher	<i>Eumyias thalassinus</i>	LC	AM	C
Family: NECTARINIIDAE				
Streaked Spiderhunter	<i>Arachnothera magna</i>	LC	R	R
Black-throated Sunbird	<i>Aethopyga saturata</i>	LC	AM	C
Mrs Gould's Sunbird	<i>Aethopyga gouldiae</i>	LC	AM	UC
Green-tailed Sunbird	<i>Aethopyga nipalensis</i>	LC	AM	C
Crimson Sunbird	<i>Aethopyga siparaja</i>	LC	R	R
Fire-tailed Sunbird	<i>Aethopyga ignicauda</i>	LC	AM	UC
Family: ORIOLIDAE				
Black-hooded Oriole	<i>Oriole xanthornus</i>	LC	SV	R
Maroon Oriole	<i>Oriolus traillii</i>	LC	AM	C
Slender-billed Oriole	<i>Oriolus tenuirostris</i>	LC	SV	R
Family: PARIDAE				
Black-throated Tit	<i>Aegithalos concinnus</i>	LC	R	C
Rufous-fronted Tit	<i>Aegithalos iouschistos</i>	LC	AM	C
Yellow-cheeked Tit	<i>Parus spilonotus</i>	LC	SV	C
Fire-capped Tit	<i>Cephalopyrus flammiceps</i>	LC	SV	UC
Grey-crested Tit	<i>Lophophanes dichrous</i>	LC	AM	C
Rufous-vented Tit	<i>Periparus rubidiventris</i>	LC	AM	C
Yellow-browed Tit	<i>Sylviparus modestus</i>	LC	AM	UC
Sultan Tit	<i>Melanochlora sultanea</i>	LC	SV	R
Coal Tit	<i>Periparus ater</i>	LC	AM	C
Green-backed Tit	<i>Parus monticolus</i>	LC	AM	C
Family: PASSERIDAE				
House sparrow	<i>Passer domesticus</i>	LC	R	R
Eurasian Tree Sparrow	<i>Passer montanus</i>	LC	R	C
Russet Sparrow	<i>Passer rutilans</i>	LC	AM	C
Family: PRUNELLIDAE				
Maroon-backed Accentor	<i>Prunella immaculata</i>	LC	R	UC
Rufous-breasted Accentor	<i>Prunella strophliata</i>	LC	AM	UC
Alpine Accentor	<i>Prunella collaris</i>	LC	AM	UC
Family: PYCNONOTIDAE				
Black-crested Bulbul	<i>Pycnonotus flaviventris</i>	LC	R	UC
Himalayan Bulbul	<i>Pycnonotus leucogenys</i>	LC	AM	UC
Striated Bulbul	<i>Pycnonotus striatus</i>	LC	AM	C
Red-vented Bulbul	<i>Pycnonotus cafer</i>	LC	AM	C
Ashy Bulbul	<i>Hemixos flava</i>	LC	R	UC
Black Bulbul	<i>Hypsipetes leucocephalus</i>	LC	AM	C
Mountain Bulbul	<i>Ixos mccllellandii</i>	LC	AM	C
White-throated Bulbul	<i>Alophoixus flaveolus</i>	LC	R	R

Checklist of avifauna in the SRFL of Trongsa District, Bhutan (Cont...)

Family: REGULIDAE				
Goldcrest	<i>Regulus regulus</i>	LC	AM	C
Family: RHIPIDURIDAE				
White-throated Fantail	<i>Rhipidura albicollis</i>	LC	AM	C
Yellow-bellied Fantail	<i>Chelidorhynch hypoxanthus</i>	LC	AM	UC
Family: SITTIDAE				
White-tailed Nuthatch	<i>Sitta himalayensis</i>	LC	R	C
Chestnut-bellied Nuthatch	<i>Sitta cinnamoventris</i>	LC	R	C
Family: STURNIDAE				
Spot-winged Starling	<i>Saroglossa spilopterus</i>	LC	SV	R
Chestnut-tailed Starling	<i>Sturnia malabarica</i>	LC	R	UC
Great Myna	<i>Acridotheres grandis</i>	LC	R	R
Common Myna	<i>Acridotheres tristis</i>	LC	AM	C
Family: SYLVIIDAE				
Brown-flanked Bush Warbler	<i>Cettia fortipes</i>	LC	AM	C
Aberrant Bush Warbler	<i>Cettia flavolivacea</i>	LC	AM	UC
Grey-cheeked Warbler	<i>Seicercus poliogenys</i>	LC	AM	UC
Dusky Warbler	<i>Phylloscopus fuscatus</i>	LC	WV	UC
Thick-billed Warbler	<i>Phragmaticola aedon</i>	LC	PM	R
Blyth's Leaf Warbler	<i>Phylloscopus reguloides</i>	LC	PM	UC
Brown Bush Warbler	<i>Bradypterus luteoventris</i>	LC	WV	R
Grey-sided Bush Warbler	<i>Cettia brunnifrons</i>	LC	AM	C
Buff-barred Warbler	<i>Phylloscopus pulcher</i>	LC	AM	C
Grey-hooded Warbler	<i>Phylloscopus xanthoschistos</i>	LC	PM	C
Chestnut-crowned Warbler	<i>Seicercus castaniceps</i>	LC	AM	UC
Lemon-rumped Warbler	<i>Phylloscopus chloronotus</i>	LC	PM	C
Ashy-throated Warbler	<i>Phylloscopus maculipennis</i>	LC	AM	C
Tickell's Leaf Warbler	<i>Phylloscopus affinis</i>	LC	SV	C
Whistler's Warbler	<i>Seicercus whistleri</i>	LC	AM	C
Greenish Warbler	<i>Phylloscopus trochiloides</i>	LC	AM	C
Yellow-vented Warbler	<i>Phylloscopus cantator</i>	LC	AM	C
Large-billed Leaf Warbler	<i>Phylloscopus magnirostris</i>	LC	SV	UC
Family: TEPHRODORNITHIDAE				
Large Woodshrike	<i>Tephrodornis virgatus</i>	LC	R	UC
Family: TICHODROMINAE				
Wallcreeper	<i>Tichodroma muraria</i>	LC	WV	UC
Family: TIMALIIDAE				
Rufous-chinned Laughingthrush	<i>Garrulax rufogularis</i>	LC	R	C
White-crested Laughingthrush	<i>Garrulax leucolophus</i>	LC	R	C
Black-faced Laughingthrush	<i>Garrulax affinis</i>	LC	R	C
Lesser Necklaced Laughingthrush	<i>Garrulax monileger</i>	LC	R	UC
Rufous-necked Laughingthrush	<i>Garrulax ruficollis</i>	LC	R	UC
Scaly Laughingthrush	<i>Garrulax subunicolor</i>	LC	AM	R
Bhutan Laughingthrush	<i>Garrulax imbricatus</i>	LC	WV	C
Blue-winged Laughingthrush	<i>Garrulax squamatus</i>	LC	R	R
Chestnut-crowned Laughingthrush	<i>Garrulax erythrocephalus</i>	LC	AM	C
Striated Laughingthrush	<i>Garrulax striatus</i>	LC	R	C
White-throated Laughingthrush	<i>Garrulax albogularis</i>	LC	R	C
Red-faced Liocichla	<i>Liocichla phoenicea</i>	LC	R	UC
Fire-tailed Myzornis	<i>Myzornis pyrrhoura</i>	LC	AM	R
Pygmy Wren Babbler	<i>Pnoepyga pusilla</i>	LC	AM	UC

Checklist of avifauna in the SRFL of Trongsa District, Bhutan (Cont...)

Jungle Babbler	<i>Turdoides striata</i>	LC	R	R
Grey-throated Babbler	<i>Stachyris nigriceps</i>	LC	R	UC
Slender-billed Scimitar Babbler	<i>Xiphirhynchus superciliaris</i>	LC	AM	UC
White-browed Scimitar Babbler	<i>Pomatorhinus schisticeps</i>	LC	R	UC
Black-eared Shrike Babbler	<i>Pteruthius melanotis</i>	LC	AM	UC
Green Shrike Babbler	<i>Pteruthius xanthochlorus</i>	LC	R	UC
White-browed Shrike Babbler	<i>Pteruthius flaviscapis</i>	LC	AM	C
Rusty-cheeked Scimitar Babbler	<i>Pomatorhinus erythrogeus</i>	LC	R	C
Scaly-breasted Wren Babbler	<i>Pnoepyga albiventer</i>	LC	AM	UC
Streak-breasted Scimitar Babbler	<i>Pomatorhinus ruficollis</i>	LC	R	C
Rufous-capped Babbler	<i>Stachyridopsis ruficeps</i>	LC	R	UC
Silver-eared Mesia	<i>Mesia argentea</i>	LC	R	UC
Himalayan Cutia	<i>Cutia nipalensis</i>	LC	R	UC
Bar-throated Siva	<i>Siva strigula</i>	LC	R	C
Blue-winged Siva	<i>Siva cyanouroptera</i>	LC	R	C
Streak-throated Barwing	<i>Actinodura waldeni</i>	LC	R	R
Hoary-throated Barwing	<i>Actinodura nipalensis</i>	LC	R	C
Rusty-fronted Barwing	<i>Actinodura egertoni</i>	LC	R	UC
Rufous-throated Fulvetta	<i>Schoeniparus rufogularis</i>	LC	R	R
Golden-breasted Fulvetta	<i>Lioparus chrysotis</i>	LC	AM	UC
Rufous-winged Fulvetta	<i>Pseudominla castaneiceps</i>	LC	AM	C
White-browed Fulvetta	<i>Fulvetta vinipectus</i>	LC	AM	UC
Nepal Fulvetta	<i>Alcippe nipalensis</i>	LC	R	C
Red-tailed Minla	<i>Minla ignotincta</i>	LC	AM	C
Rufous Sibia	<i>Malacias capistratus</i>	LC	R	C
Red-billed Leiothrix	<i>Leiothrix lutea</i>	LC	AM	UC
White-bellied Erpornis	<i>Erpornis zantholeuca</i>	LC	R	C
Black-chinned Yuhina	<i>Yuhina nigrimenta</i>	LC	R	C
Striated Yuhina	<i>Staphida castaniceps</i>	LC	R	C
Whiskered Yuhina	<i>Yuhina flavicollis</i>	LC	AM	C
Rufous-vented Yuhina	<i>Yuhina occipitalis</i>	LC	AM	C
Stripe-throated Yuhina	<i>Yuhina gularis</i>	LC	AM	C
Brown Parrotbill	<i>Cholornis unicolor</i>	LC	R	UC
Lesser Rufous-headed Parrotbill	<i>Chleuasicus atrosuperciliaris</i>	LC	R	R
Family: TROGLODYTIDAE				
Eurasian Wren	<i>Troglodytes troglodytes</i>	LC	WV	C
Family: TURDIDAE				
Blue Whistling Thrush	<i>Myophonus caeruleus</i>	LC	R	C
Chestnut-bellied Rock Thrush	<i>Monticola rufiventris</i>	LC	AM	C
Black-throated Thrush	<i>Turdus atrogularis</i>	LC	WV	C
Blue Rock Thrush	<i>Monticola solitarius</i>	LC	WV	C
Blue-capped Rock Thrush	<i>Monticola cinclorhynchus</i>	LC	SV	UC
Long-tailed Thrush	<i>Zoothera dixonii</i>	LC	AM	UC
Scaly Thrush	<i>Zoothera dauma</i>	LC	AM	UC
Orange-headed Thrush	<i>Zoothera citrina</i>	LC	SV	UC
Alpine Thrush	<i>Zoothera mollissima</i>	LC	AM	C
Lesser Shortwing	<i>Brachypteryx leucophris</i>	LC	R	UC
White-browed Shortwing	<i>Brachypteryx montana</i>	LC	AM	UC
Grey-winged Blackbird	<i>Turdus boulboul</i>	LC	AM	C
White-collared Blackbird	<i>Turdus albocinctus</i>	LC	AM	C

Checklist of avifauna in the SRFL of Trongsa District, Bhutan (Cont...)

Family: ZOSTEROPIDAE				
Oriental White-eye	<i>Zosterops palpebrosus</i>	LC	AM	C
Family: ARDEIDAE				
Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	LC	AM	R
Cattle Egret	<i>Bubulcus ibis</i>	LC	SV	R
Family: RAMPHASTIDAE				
Blue-throated Barbet	<i>Megalaima asiatica</i>	LC	AM	C
Golden-throated Barbet	<i>Megalaima franklinii</i>	LC	AM	C
Great Barbet	<i>Megalaima virens</i>	LC	R	C
Family: PICIDAE				
Eurasian Wryneck	<i>Jynx torquilla</i>	LC	PM	R
Yellow-rumped Honeyguide	<i>Indicator xanthonotus</i>	NT	R	R
Lesser Yellownappe	<i>Picus chlorolophus</i>	LC	R	C
Greater Yellownappe	<i>Picus flavinucha</i>	LC	R	C
Crimson-breasted Woodpecker	<i>Dendrocopos cathpharius</i>	LC	R	UC
Rufous-bellied Woodpecker	<i>Dendrocopos hyperythrus</i>	LC	R	C
Grey-capped Pygmy woodpecker	<i>Dendrocopos canicapillus</i>	LC	R	UC
Grey-headed Woodpecker	<i>Picus canus</i>	LC	R	UC
Rufous Woodpecker	<i>Micropternus brachyurus</i>	LC	R	UC
Bay Woodpecker	<i>Blythipicus pyrrhotis</i>	LC	R	UC
Darjeeling Woodpecker	<i>Dendrocopos darjellensis</i>	LC	R	C
Speckled Piculet	<i>Picumnus innominatus</i>	LC	R	UC
White-browed Piculet	<i>Sasia ochracea</i>	LC	R	UC
Family: PODICIPEDIDAE				
Great Crested Grebe	<i>Podiceps cristatus</i>	LC	PM	R
Family: PHALACROCORACIDAE				
Great Cormorant	<i>Phalacrocorax carbo</i>	LC	R	UC
Family: STRIGIDAE				
Asian Barred Owllet	<i>Glaucidium cuculoides</i>	LC	R	R
Collared Scops Owl	<i>Otus bakkamoena</i>	LC	R	R
Collared Owllet	<i>Glaucidium brodiei</i>	LC	R	UC
Mountain Scops Owl	<i>Otus spilocephalus</i>	LC	R	UC
Himalayan Wood Owl	<i>Strix nivicola</i>	LC	R	R
Tawny Fish Owl	<i>Ketupa flavipes</i>	LC	R	R