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# The Avifauna of the Khe Nuoc Trong Proposed Natural Reserve in Quang Binh Province, Central Vietnam

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Ngo Xuan Tuong \*\*\*\*, Le Trong Trai\*\*\*\* and Ha Van Nghia\*\*\*

\*Institute of Ecology and Biological Resources (IEBR),
Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet Street, Hanoi, Vietnam

\*\*\*Graduate University of Science and Technology,
Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet Street, Hanoi, Vietnam

Viet Nature Conservation Centre, Apt. 202, building 18T2, Le Van Luong street, Hanoi, Vietnam

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ABSTRACT: The Khe Nuoc Trong proposed natural reserve in central Vietnam harbors a diverse avifauna that remains under surveyed and poorly know. The first comprehensive ornithological inventory of the Khe Nuoc Trong was conducted from 2011 to 2015, and it was compared with those of other sites in central Vietnam. The study site is covered by evergreen tropical forest on lowlands with elevation under 1,000 m. A total of 210 bird species have been recorded from observation fieldwork and camera trapping in the study area, including four restricted-range species: Crested Argus *Rheinardia ocellata*, Short-tailed Scimitar Babbler *Jabouilleia danjoui*, Grey-faced Tit-babbler *Macronous kelleyi* and White-cheeked Laughing thrush *Garrulax vassali*. Hunting with snares is a major threat to galliformes and other ground-dwelling small and medium-sized animal. In terms of endemism, the study site is one of the top two sites of 11 Important Bird Areas in the Annamese Lowlands Endemic Bird Area in central Vietnam.

Keywords: Avifauna, Khe Nuoc Trong, Natural Reserve, Quang Binh, Vietnam

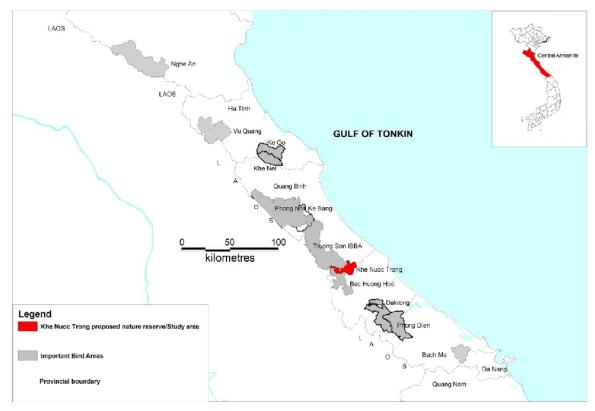
## INTRODUCTION

The Khe Nuoc Trong proposed natural reserve is located at the coordinates  $16^{\circ}55'18''N$  to  $17^{\circ}3'34''N$  and  $106^{\circ}32'31''E$  to  $106^{\circ}48'27''E$ . It encompasses an area of lowland and mid-montane evergreen forest in central Vietnam, closed to the international border with Laos (Map 1.), and covers over 20,000 hectares of natural forest. The proposed natural reserve is bisected by the Ho Chi Minh highway.

Khe Nuoc Trong forms the southern part of the Truong Son Important Bird Area (IBA), which was identified by BirdLife International Vietnam Programme (2002). This IBA and the forests of Khe Nuoc Trong support a typical flora and fauna of the Annamese Lowlands Endemic Bird Area (EBA). The site is qualified as an IBA under criteria A1, due to the presence of globally threatened species (at the time of assessment, a number of species found in the nature reserve, such as Edwards's Pheasant and Crested Argus, were considered globally threatened and near-threatened species, respectively); A2, due to the presence of

restricted-range species; and A3, due to the presence of biome restricted species. It is also a Key Biodiversity Area (KBA), part of a globally important network of sites for conservation, due to the presence of species newly-described to science since 1992 such as Saola Pseudoryx nghetinhensis, Large-antlered Muntjac Muntiacus vuquangensis (1994), Annamite Muntjac Muntiacus truongsonensis (1997) and Annamite Striped Rabbit Nesolagus timminsi (2000), and historical records of Edwards's Pheasant Lophura edwardsi.

There are 11 protected areas in the Annamese Lowlands Endemic Bird Area (EBA) in Vietnam, which protect blocks of forest along the eastern edge of the Annamite Range and the coastal lowlands. Approximately 50 kilometers to the south of Khe Nuoc Trong are Dakrong and Phong Dien Natural Reserves, covering 40,526 and 41,548 hectares respectively. Nearly 70 kilometers to the north, Phong Nha-Ke Bang National Park protects 123,000 hectares of lowland broad-leaf evergreen and limestone karst forest (Map 1).



**Map 1.** Map showing study area-Khe Nuoc Trong and protected areas within Annamese Lowlands EBA, in Central Vietnam.

In this paper, we present the rich bird fauna of the Khe Nuoc Trong based on extensive ornithological surveys conducted from 2011-2015 throughout the area. We produce an annotated checklist of birds for the study area, including information on some threatened, near threatened and restricted-range species proposed by BirthLife International (2014).

## **METHODS**

Bird surveys were conducted between 2011 and 2014 using observation and camera trapping methods. Fieldworks were carried out in two periods, 21 days of survey effort in February of 2012 (with two surveyors) and 38 days of survey effort from March to October of 2014 (with two surveyors). All survey efforts concentrated in the late spring of March and April. Camera traps were set up during the period of 2011 to 2014. Camera trap surveys were designed for small and medium ground-dwelling animals with cameras attached to trees at heights from 30 cm to 60 cm above the ground and a distance of about 250 m between stations.

When the weather is good, we conducted observational surveys along trails, right after dawn until late morning (11h00), and again, from late afternoon (16h00) until dusk each day. We walked along the trails slowly and deliberately, with frequent stops to observe mixed feeding flocks or birds feeding on fruit trees. Bird species were identified by sight (observation), using 8×42 binoculars, or sound, and were voice-recorded and photographed when possible. The bird encounter rate was enhanced by frequent imitation of the sound of the partly diurnal Collared Owlet Glaucidium brodiei using a bamboo whistle. This disturbs make them to closely approach the source of the sound, thereby facilitating their identification. All survey points were georeferenced using a handheld GPS unit. During the survey, at each of the survey locality, data on the bird community were collected, using a modification from the method outlined in MacKinnon and Phillips (2000). This involves making a list of the first 10 species recorded, and then repeating the process until 10 such lists have been made. A species should be recorded on any list only one time.

The start-time and end-time for each list was noted. Basic characteristics of habitat vegetation type were noted. The same transect was never walked twice for avoiding to record the same individual birds. Plotting the accumulated total number of species recorded against the number of lists made gives a species discovery curve, whose steepness reflects species richness and indicates how many more species are likely to still be found at the locality. Species that occur on a high proportion of lists are the most abundant or conspicuous species of the local avifauna (MacKinnon and Phillips 2000).

To understand the important of avifauna of Khe Nuoc Trong proposed natural reserve, we collected and analyzed bird data from 10 protected areas in the same ecological region - the Annamese Lowlands Endemic Bird Area. These bird data had published in series of technical reports by Bird Life International Vietnam Program from 1999 to 2005.

## **RESULTS**

#### A. Bird diversity

The avifauna of Khe Nuoc Trong has typical characters of the Annamese Lowlands Endemic Bird Area. To date, 210 bird species have been recorded in Khe Nuoc Trong

proposed nature reserve (Appendix 1). Of these, two species are considered global threatened level: a provisional record of Edwards's Pheasant Lophura edwardsi (CR) and Fairy Pitta Pitta nympha (VU) and seven species are considered Near Threatened at a global level (BirdLife 2015) (Table 1). Seven species are considered threatened at a national level (Anon 2007). Five of the seven restricted-range species, which define the Annamese Lowlands Endemic Bird Area, have been recorded from Khe Nuoc Trong. Amongst the species of conservation concern, there are only provisional records of Edwards's Pheasant based on interviews with local villagers and hunters. From 2011 until the present there has been a lot of concerted effort to record Edwards's Pheasant through ornithological surveys, camera trap surveys and interviews in the community together with a poster campaign but to date there has been no strong evidence of the presence of this species in the area.

**Species of conservation concern.** Included here are records of all species whose conservation status is judged to be Globally Threatened or Near-threatened by BirdLife International (2016).

Table 1: Threatened, Near Threatened and restricted-range bird species recorded in Khe Nuoc Trong Area.

English name	Scientific name	Bird Life 2015	VNRDB 2007
[Edwards's Pheasant]	Lophura edwardsi	CR, RRS	EN
Siamese Fireback	Lophura diardi	LC	VU
Grey Peacock Pheasant	Polyplectron bicalcaratum		VU
Crested Argus	Rheinardia ocellata	NT, RRS	VU
Blyth's Kingfisher	Alcedo hercules	NT	
Austen's Brown Hornbill	Anorrhinus austeni	NT	VU
Great Hornbill	Buceros bicornis	NT	VU
Red-collared Woodpecker	Picus rabieri	NT	
Fairy Pitta	Pitta nympha	VU	VU
Indochinese Wren Babbler	Rimator danjoui	NT RRS	
Grey-faced Tit-babbler	Macronous kelleyi	RRS	
White-cheeked Laughing thrush	Garrulax vassali	RRS	

**Note:** Conservation status: CR = Critically Endangered, VU = Vulnerable, NT = Near-Threatened, RRS = Restricted Range Species. [] = Unconfirmed records (information of species come from interviews). RDBVN: Red Data Book of Vietnam (2007).

Edwards's Pheasant Lophura edwardsi (CR). The occurrence of this species in Khe Nuoc Trong is unconfirmed. All information relating to the occurrence of this species in the forest of Khe Nuoc Trong comes from interviews with local residents in Rum-Ho and An Bai villages. Those villages are located nearby and most villagers are fairly knowledgeable of wildlife in the area. For pheasant species in Lophura genus, many of them made confusing in between different species.

In 2011, the World Pheasant Association (WPA), Quang Tri Center of Education and Consultancy on Agriculture and Rural Development (CECARD) and BirdLife International Vietnam Programme conducted extensive surveys using camera trapping in Khe Nuoc Trong and a part of Dakrong Nature Reserve (Quang Tri Province). They did not confirm the presence of the species in either site (CEPF). Recently, this species has been up-listed to Critically Endangered by BirdLife International in 2012.

To date, 7,777 camera trap nights within four forest compartment of lowland broadleaf forest covering about 4,000 ha did not record this species. It is likely that this species has been hunted out and is now might be locally extinct. In addition, interviews and poster campaigns were conducted in April 2014 at seven villages (including 2 above) within Truong Son Important Bird Area and no villagers were able to confirm the local existence of Edwards's Pheasant in the wild.

Siamese Fireback *Lophura diardi* (LC). A single male was observed at 16°59.402'N; 106°44.335'E, elevation of 90 m in forest compartment 528, on 15 February 2012. 216 photos of this species were also captured by camera traps on the eastern side of Khe Nuoc Trong proposed nature reserve. A major threat to this species is snaring by local people and outsiders who live far from the area. Local people reported that professional hunters come from Ron, Quang Trach District, Quang Binh Province to hunt animals for both food and commercial purposes.

**Silver Pheasant** *Lophura nycthemera.* There were no sightings of this species during the survey in 2012 but photos of the species were taken by camera traps in 2013 and 2014 on the western side of Khe Nuoc Trong. Nine birds from 28 photos were taken by camera traps during 3,074 camera trap nights on the western side of Khe Nuoc Trong at elevations of 400 to 700 m a.s.l. It is likely that this species is not common within Khe Nuoc Trong and hunting with snares is its main threat.

**Grey Peacock Pheasant** *Polyplectron bicalcaratum* **(VU).** This species was not record during surveys in Khe Nuoc Trong but informants in Rum-Ho village indicated that this species still occurs in the forest of Khe Nuoc Trong and Khe Giua State Forest Enterprise. This species is not listed in on the IUCN Red List but is evaluated as Vulnerable in the Red Data Book of Vietnam, 2007 due to extensive hunting with snares.

Crested Argus Rheinardia ocellata (NT). This species was not record on the eastern side of Khe Nuoc Trong where the forest habitat is more disturbed by illegal logging. Several calls were heard on the western side of Khe Nuoc Trong on May 2013. Over 1,991 camera trap nights, seven birds from 60 photos were taken on the western side of the area during the period of July to September 2014. This species is also threat by hunting with snares.

Great Hornbill *Buceros bicornis* (NT). At least two birds were seen in Khe Nuoc Trong, near Cau Khi forest guard station on 28 February 2012. In Khe Nuoc Trong, the forest still supports good habitat for hornbills, also including Austen's Brown Hornbill *Buceros bicornis* and Oriental Pied Hornbill *Anthracoceros albirostris*.

It is likely that hornbills are less threatened than ground-dwelling wildlife because local hunters no longer use guns.

#### Austen's Brown Hornbill Anorrhinus austeni (NT).

This species is relative common in the forest of Khe Nuoc Trong. During the surveys in February and March 2012, this species was often seen in flocks of seven to fifteen birds. Photographs were also taken of this species during 2012. An abundance of hornbill species indicates that forest quality in Khe Nuoc Trong is still good for their feeding and nesting. It also demonstrates the effectiveness of controlling guns by local authorities and the border army in the area surrounding Khe Nuoc Trong.

**Blyth's Kingfisher** *Alcedo hercules* (NT). Fairly common on rivers and large streams surrounded by mature forest within Khe Nuoc Trong area.

**Red-collared Woodpecker** *Picus rabieri* (NT). Two birds were observed on the eastern side of Khe Nuoc Trong at an elevation of 120 m on 7 March 2012.

**Indochinese Wren Babbler** *Rimator danjoui* (NT, RRS). A pair were seen at 16 58.607'N; E106 35.324'E, elevation 587 m, on 22 February 2012. Calls of this species were also heard on many occasions on both western and eastern sides of Khe Nuoc Trong during surveys in 2012 to 2014. Several photos of this species were taken by camera traps on the eastern side of the area.

Grey-faced Tit Babbler *Macronous kelleyi* (RRS). This species was seen fairly often in the lowland evergreen forest in Khe Nuoc Trong.

White-cheeked Laughingthrush Garrulax vassali (RRS). This species is relative common in the lowland forest and edge of forest on the eastern side of Khe Nuoc Trong. During the survey in February and March 2012, this species was often seen feeding in big flocks of 15 to 30 birds.

Fairy Pitta Pitta nympha (VU). This species was only recorded by camera traps from March to May from 2011 to 2014. A total 48 photos was captured by camera traps. All records were at low elevation in evergreen forest on the eastern side of Khe Nuoc Trong. This species is a passage migrant in E Tonkin, N, C Annam, Cochinchina (Robson, 2008).

## DISCUSSION

The bird species lists of the Khe Nuoc Trong proposed nature reserve is not fully completed. Difficult taxa such as the *Phylloscopus* warblers are probably under represented, partly because the survey period was outside the migrant season for warblers of the genus *Phylloscopus*.

However, most species of conservation concern expected to be found in the Khe Nuoc Trong area were recorded. The exception is the Critically Endangered Edwards's Pheasant, which was not recorded. This species is still a provisional record on the basis of interviews with local hunters. Results of camera trapping confirm several species of galliformes for the area such as Green-legged Partridge, Siamese Fireback, Silver Pheasant and Crested Argus. In Vietnam, Crested Argus is highly threatened by hunting and has become locally extirpated from many protected areas.

Hunting with snares is a major threat to ground-dwelling birds, whereas hunting with guns no longer occurs, giving arise to healthy hornbill populations. It appears that the habitat of Khe Nuoc Trong remains good.

The avifauna of Khe Nuoc Trong area is typical of the Annamese Lowlands Endemic Bird Area. To date, 208 bird species have been recorded in the area (Appendix 1). Four of the six restricted-range species which define the Annamese Lowlands Endemic Bird Area, have been recorded from Khe Nuoc Trong area. Compare to the

number of Restricted-range species recorded in each of the other 11 protected areas in the Annamese Lowlands Endemic Bird Area in Vietnam, Khe Nuoc Trong area and Phong Dien Nature Reserve are ranked highest. The second ranking includes Ke Go, Dakrong, Khe Net and Phong Nha-Ke Bang protected areas with four each. The third ranking is Vu Quang and Bach Ma National Parks with three each and Pu Mat and Cuc Phuong National Parks have two and one respectively.

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Appendix: Bird species recorded in Khe Nuoc Trong Proposed Nature Reserve, Quang Binh Province, Vietnam.

Species	Global status	VN RDB
Bar-backed Partridge Arborophila brunneopectus		
Green-legged Partridge Arborophila chloropus		
Crested Argus Rheinardia ocellata	NT	VU
Grey Peacock-pheasant Polyplectron bicalcaratum		VU
Chinese Francolin Francolinus pintadeanus		
Red Junglefowl Gallus gallus		
Silver Pheasant Lophura nycthemera		
Edwards's Pheasant Lophura edwardsi	CR	EN
Siamese Fireback Lophura diardi		VU
Oriental Turtle-dove Streptopelia orientalis		
Red Turtle-dove Streptopelia tranquebarica		
Eastern Spotted Dove Spilopelia chinensis		
Barred Cuckoo-dove Macropygia unchall		
Grey-capped Emerald Dove Chalcophaps indica		
Orange-breasted Green-pigeon Treron bicinctus		
Thick-billed Green-pigeon Treron curvirostra		
Pin-tailed Green-pigeon Treron apicauda		
Mountain Imperial-pigeon Ducula badia		
Silver-backed Needletail Hirundapus cochinchinensis		
Asian Palm-swift Cypsiurus balasiensis		
Pacific Swift Apus pacificus		
Greater Coucal Centropus sinensis		
Lesser Coucal Centropus bengalensis		
Green-billed Malkoha Phaenicophaeus tristis		
Western Koel Eudynamys scolopaceus		
Plaintive Cuckoo Cacomantis merulinus		
Square-tailed Drongo-cuckoo Surniculus lugubris		
Large Hawk-cuckoo Hierococcyx sparverioides		
Indian Cuckoo Cuculus micropterus		

Species	Global status	VN RDB
Edwards's Pheasant Lophura edwardsi	CR	EN
Common Cuckoo Cuculus canorus		
White-breasted Waterhen Amaurornis phoenicurus		
Yellow Bittern Ixobrychus sinensis		
Black Bittern Ixobrychus flavicollis		
Malay Night-heron Gorsachius melanolophus		
Green-backed Heron Butorides striata		
Chinese Pond-heron Ardeola bacchus		
Eurasian Woodcock Scolopax rusticola		
Barred Buttonquail Turnix suscitator		
Collared Owlet Glaucidium brodiei		
Asian Barred Owlet Glaucidium cuculoides		
Collared Scops-owl Otus lettia		
Mountain Scops-owl Otus spilocephalus		
Oriental Honey-buzzard Pernis ptilorhynchus		
Crested Serpent-eagle Spilornis cheela  Mountain Hawk-eagle Nisaetus nipalensis		
Rufous-bellied Eagle Lophotriorchis kienerii		
Black Eagle Ictinaetus malaiensis		
Crested Goshawk Accipiter trivirgatus		
Shikra Accipiter badius		
Chinese Sparrowhawk Accipiter soloensis		****
Lesser Fish-eagle Icthyophaga humilis		VU
Grey-faced Buzzard Butastur indicus		
Orange-breasted Trogon Harpactes oreskios		
Red-headed Trogon Harpactes erythrocephalus		
Great Hornbill Buceros bicornis	NT	VU
Austen's Brown Hornbill Anorrhinus austeni	NT	VU
Oriental Pied Hornbill Anthracoceros albirostris		
Blue-bearded Bee-eater Nyctyornis athertoni		
Blue-tailed Bee-eater Merops philippinus		
Oriental Dollarbird Eurystomus orientalis		
Oriental Dwarf-kingfisher Ceyx erithaca		
Blyth's Kingfisher Alcedo hercules	NT	
Common Kingfisher Alcedo atthis		
White-breasted Kingfisher Halcyon smyrnensis		
Red-vented Barbet Psilopogon lagrandieri		
Green-eared Barbet Psilopogon faiostrictus		
Lineated Barbet Psilopogon lineatus		
Golden-throated Barbet Psilopogon franklinii		
White-browed Piculet Sasia ochracea		
Speckled Piculet Picumnus innominatus		
Bay Woodpecker Blythipicus pyrrhotis		
Common Flameback Dinopium javanense		
Rufous Woodpecker Micropternus brachyurus		
Greater Yellownape Chrysophlegma flavinucha		
Lesser Yellownape Picus chlorolophus		
Red-collared Woodpecker Picus rabieri		
Pied Falconet Microhierax melanoleucos		
Vernal Hanging-parrot Loriculus vernalis		
Long-tailed Broadbill Psarisomus dalhousiae		
Silver-breasted Broadbill Serilophus lunatus		
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Blue-rumped Pitta Pitta soror Blue Pitta Pitta cyanea		
Bar-bellied Pitta Pitta elliotii		
Dai-benned Plua Pina entoni		

Species	Global status	VN RDB
Red-collared Woodpecker Picus rabieri		
Fairy Pitta Pitta nympha	VU	VU
Ashy Woodswallow Artamus fuscus		
Great Iora Aegithina lafresnayei		
Large Woodshrike Tephrodornis gularis		
Large Cuckooshrike Coracina macei		
Black-winged Cuckooshrike Coracina melaschistos		
Ashy Minivet Pericrocotus divaricatus		
Grey-chinned Minivet Pericrocotus solaris		
Scarlet Minivet Pericrocotus flammeus		
Bar-winged Flycatcher-shrike Hemipus picatus		
Long-tailed Shrike Lanius schach		
Black-naped Oriole Oriolus chinensis		
Maroon Oriole Oriolus traillii		
Black Drongo Dicrurus macrocercus		
Ashy Drongo Dicrurus leucophaeus		
Crow-billed Drongo Dicrurus annectans		
Bronzed Drongo Dicrurus aeneus		
Lesser Racket-tailed Drongo Dicrurus remifer		
Hair-crested Drongo Dicrurus hottentottus		
Greater Racket-tailed Drongo Dicrurus paradiseus		
White-throated Fantail Rhipidura albicollis		
Black-naped Monarch Hypothymis azurea		
Asian Paradise-flycatcher Terpsiphone paradisi		
Blue Magpie Urocissa erythrorhyncha		
White-winged Magpie Urocissa whiteheadi		
Green Magpie Cissa chinensis		
Yellow-breasted Magpie Cissa hypoleuca		
Racket-tailed Treepie Crypsirina temia		
Ratchet-tailed Treepie Temnurus temnurus		
Large-billed Crow Corvus macrorhynchos		
Sultan Tit Melanochlora sultanea		
Barn Swallow Hirundo rustica		
Red-rumped Swallow Hirundo daurica		
Yellow-bellied Prinia Prinia flaviventris		
Plain Prinia Prinia inornata		
Red-whiskered Bulbul Pycnonotus jocosus		
Sooty-headed Bulbul Pycnonotus aurigaster		
Stripe-throated Bulbul Pycnonotus finlaysoni		
Grey-eyed Bulbul <i>Iole propinqua</i>		
Puff-throated Bulbul Alophoixus pallidus		
Mountain Bulbul Hypsipetes mcclellandii		
Asian Black Bulbul Hypsipetes leucocephalus		
Common Tailorbird Orthotomus sutorius		
Dark-necked Tailorbird Orthotomus atrogularis		
Puff-throated Babbler Pellorneum ruficeps		
Buff-breasted babbler Trichastoma tickelli		
Abbott's Babbler Malacocincla abbotti		
Scaly-crowned Babbler Malacopteron cinereum		
Large Scimitar-babbler Pomatorhinus hypoleucos		
White-browed Scimitar-babbler <i>Pomatorhinus schisticeps</i>		
Streak-breasted Scimitar-babbler Pomatorhinus ruficollis		
Red-billed Scimitar-babbler <i>Pomatorhinus ochraceiceps</i>		
Indochinese Wren Babbler Rimator danjoui	NT	
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Indochinese Wren Babbler Rimator danjoui  Eyebrowed Wren-babbler Napothera epilepidota  Rufous-capped Babbler Stachyris ruficeps  Golden Babbler Stachyris chrysaea  Grey-throated Babbler Stachyris nigriceps  Spot-necked Babbler Stachyris nigriceps  Spot-necked Babbler Stachyris nigriceps  Spot-necked Babbler Stachyris nigriceps  Spot-necked Babbler Stachyris striolata  Pin-striped Tit-babbler Macronous gularis  Grey-faced Tit-babbler Macronous kelleyi  Chestnut-capped Babbler Timalia pileata  White-crested Laughingthrush Garrulax leucolophus  Lesser Necklaced Laughingthrush Garrulax monileger  Rufous-cheeked Laughingthrush Garrulax chinensis  White-cheeked Laughingthrush Garrulax vastanotis  Black-throated Laughingthrush Garrulax vastanotis  Black-throated Laughingthrush Garrulax vastanotis  Black-eared Shrike-babbler Pteruthius flaviscapis  Black-eared Shrike-babbler Pteruthius melanotis  Black-eared Shrike-babbler Pteruthius melanotis  Black-under Fulvetta Alcippe dubia  Rusty-capped Fulvetta Alcippe fudbia  Rusty-capped Fulvetta Alcippe peracensis  Black-browed Fulvetta Alcippe peracensis  Black-browed Fulvetta Alcippe peracensis  Black-browed Fulvetta Alcippe morrisonia  Striated Yuhina Yuhina castaniceps  White-belied Yuhina Expornis zantholeuca  Oriental White-eye Zosterops palpebrosus  Asian Fairy-bluebird Irena puella  Velvet-fronted Nuthatch Sitta frontalis  Hill Myna Gracula religiosa  White-vented Myna Acridotheres grandis  Crested Myna Acridotheres grandis  Crested Myna Acridotheres grandis  White-shouldered Starling Sturnus nigricollis  Blue Whisting-thrush Myophonus caeruleus  Orange-headed Thrush Zoothera citrina  Eurasian Scaly Thrush Zoothera citrina	
Rufous-capped Babbler Stachyris ruficeps Golden Babbler Stachyris chrysaea Grey-throated Babbler Stachyris nigriceps Spot-necked Babbler Stachyris nigriceps Spot-necked Babbler Stachyris striolata Pin-striped Tit-babbler Macronous gularis Grey-faced Tit-babbler Macronous kelleyi Chestmut-capped Babbler Timalia pileata White-crested Laughingthrush Garrulax leucolophus Lesser Necklaced Laughingthrush Garrulax monileger Rufous-cheeked Laughingthrush Garrulax castanotis Black-throated Laughingthrush Garrulax castanotis White-cheeked Laughingthrush Garrulax castanotis Black-throated Laughingthrush Garrulax castanotis White-browed Shrike-babbler Pteruthius flaviscapis Black-aeraed Shrike-babbler Pteruthius melanotis Blue-winged Minla Minla cyanouroptera Rufous-throated Fulvetta Alcippe rufogularis Rusty-capped Fulvetta Alcippe dubia Mountain Fulvetta Alcippe grotei Grey-cheeked Fulvetta Alcippe grotei Grey-cheeked Fulvetta Alcippe morrisonia Striated Yuhina Yuhina castaniceps White-bellied Yuhina Erpornis zantholeuca Oriental White-eye Zosterops palpebrosus Asian Fairy-bluebird Irena puella Velvet-fronted Nuthatch Sitta frontalis Hill Myna Gracula religiosa White-shouldered Starling Sturnus sinensis Black-collared Myna Acridotheres cristatellus White-shouldered Starling Sturnus sinensis Black-collared Starling Sturnus sinensis	
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Asian Fairy-bluebird Irena puella  Velvet-fronted Nuthatch Sitta frontalis  Hill Myna Gracula religiosa  White-vented Myna Acridotheres grandis  Crested Myna Acridotheres cristatellus  White-shouldered Starling Sturnus sinensis  Black-collared Starling Sturnus nigricollis  Blue Whistling-thrush Myophonus caeruleus  Orange-headed Thrush Zoothera citrina	
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Eurasian Scaly Thrush Zoothera dauma	
Japanese Thrush Turdus cardis	
Eyebrowed Thrush Turdus obscurus	
Rufous-tailed Robin Luscinia sibilans	
Siberian Blue Robin Luscinia cyane	
Oriental Magpie-robin Copsychus saularis	
White-rumped Shama Copsychus malabaricus	
Slaty-backed Forktail Enicurus schistaceus	
White-crowned Forktail Enicurus leschenaulti	
Common Stonechat Saxicola torquatus	
Grey Bushchat Saxicola ferreus	
Blue Rock-thrush Monticola solitarius	
Asian Brown Flycatcher Muscicapa dauurica	
Mugimaki Flycatcher Ficedula mugimaki	
Red-breasted Flycatcher Ficedula parva	
White-gorgeted Flycatcher Ficedula monileger	
Verditer Flycatcher Eumyias thalassinus	
White-tailed Flycatcher Cyornis concretus	
Hainan Blue-flycatcher Cyornis hainanus	
Hill Blue-flycatcher Cyornis banyumas	
Grey-headed Canary-flycatcher Culicicapa ceylonensis	

Species	Global status	VN RDB
Grey-faced Tit-babbler Macronous kelleyi		
Blue-winged Leafbird Chloropsis cochinchinensis		
Orange-bellied Leafbird Chloropsis hardwickii		
Plain Flowerpecker Dicaeum concolor		
Scarlet-backed Flowerpecker Dicaeum cruentatum		
Purple-naped Sunbird Hypogramma hypogrammicum		
Olive-backed Sunbird Nectarinia jugularis		
Gould's Sunbird Aethopyga gouldiae		
Fork-tailed Sunbird Aethopyga christinae		
Black-throated Sunbird Aethopyga saturata		
Crimson Sunbird Aethopyga siparaja		
Little Spiderhunter Arachnothera longirostra		
Streaked Spiderhunter Arachnothera magna		
Eurasian Tree Sparrow Passer montanus		
White-rumped Munia Lonchura striata		
White Wagtail Motacilla alba		
Grey Wagtail Motacilla cinerea		
Richard's Pipit Anthus richardi		
Olive-backed Pipit Anthus hodgsoni		

**Note:** Bird names (common and scientific), sequence and species limits follow BirdLife International: The BirdLife checklist of the birds of the world: Version 7.

Conservation status in IUCN/Global status and VNRDB (Vietnam Red Data Book)

CR = Critical Endangered; EN= Endangered; VU = Vulnerable; NT= Near-threatened.

Name of species in bold are Restricted-range species as per BirdLife International (2008)

#### REFERENCES

- Anon. Vietnam Red Data Book. (2007). Ministry of Science and Technology and Vietnamese Academy of Science and Technology.
- Bibby, C.J.; Burgess, N.D.; Hill, D.A. & Mustoe, S.H. (2000).

  Bird census techniques. Academic Press, London, 302 p.
- BirdLife International. (2016). Handbook of the Birds of the World and Bird Life International digital checklist of the birds of the world.
- Bird Life International. *Lophura edwardsi*. (2016). The IUCN Red List of Threatened Species: e.T45354985A95145107. http://dx.doi.org/10.2305/IUCN.UK.2016-3.RLTS.T45354985A95145107.en.
- Craig Robson. (2008). A field guide to the Birds of South-East Asia.
- Eve, R. (1996). Bird list of Bach Ma National Park. Hue: EC/WWF Bach Ma National Park Project. 1996. In Vietnamese.
- J.C. Eames, R. Eve and A.W. Tordoff. (2001). The importance of Vu Quang Nature Reserve, Vietnam, for bird conservation, in the context of the Annamese Lowlands Endemic Bird Area. Bird Conservation International, 11, pp 247-285 doi: 10.1017/S0959270901000326.
- Le Manh Hung, Dang Ngoc Can, Nguyen Duc Tu, Tran Lu Hong, Ngo Viet Huy. (2004). A rapid bird and mammal survey of Huong Lap Commune, Huong Hoa District, Quang Tri Province, Vietnam. BirdLife in Indochina, Hanoi, Vietnam.
- Le Trong Trai. (2005). Bird survey in Bac Huong Hoa Nature Reserve, Quang Tri Province, Vietnam: a contribution to the Investment Plan for establishing Bac Huong

- Hoa Nature Reserve, Quang Tri Province. BirdLife International Vietnam Programme.
- Le Trong Trai and Eames, J. C. (1998). Biodiversity survey in Phong Dien and Dakrong proposed nature reserves, Thua Thien Hue and Quang Tri provinces. *Forest Inventory and Planning Journal*, **2**: 23-30. In Vietnamese.
- Le Trong Trai, Ha Van Nghia, Le Quoc Hieu and Tran Dang Hieu. (2014). Camera trap surveys in Khe Nuoc Trong proposed nature reserve, Quang Binh, Vietnam. In Litt.
- Le Trong Trai, Le Van Cham, Vu Van Dung, Do Tuoc and Steven Swan. (2003). A Rapid Biodiversity Survey and Assessment of Pu Mat National Park, Nghe An Province, Vietnam. Nghe An: SFNC Project.
- Le Trong Trai, Nguyen Huy Dung, Nguyen Cu, Le Van Cham, Eames, J. C., and Chicoine, G. (1999). An investment plan for Ke Go Nature Reserve, Ha Tinh province, Vietnam: a contribution to the management plan. Hanoi: BirdLife International Vietnam Programme and the Forest Inventory and Planning Institute.
- Le Trong Trai, Richardson, W. J., Le Van Cham, Tran Hieu Minh, Tran Quang Ngoc, Nguyen Van Sang, Monastyrskii, A. L. and Eames, J. C. (1999). A feasibility study for the establishment of Phong Dien (Thua Thien Hue province) and Dakrong (Quang Tri province) Nature Reserves. Hanoi: BirdLife International Vietnam Programme and the Forest Inventory and Planning Institute.
- Mahood, S. P. and Tran Van Hung .eds. (2008). *The Biodiversity of Bac Huong Hoa Nature Reserve, Quang Tri Province, Vietnam.* 2008. BirdLife International Vietnam Programme, Hanoi, Vietnam.

- Nguyen Cu, Le Manh Hung. (2004). *Birds of Dakrong Nature Reserve*. In Litt. (unpublished report).
- Robson, C. R. (2008). A field guide to the birds of Thailand and South-East Asia. Bangkok: Asia Books.
- Tordoff, A. W. ed. (2002). Directory of important bird areas in Vietnam: key sites for conservation. Hanoi:
- BirdLife International in Indochina and the Institute of Ecology and Biological Resources.

  Tordoff, A. W., Tran Quoc Bao, Nguyen Duc Tu and Le
- Manh Hung eds. (2004). Sourcebook of existing and proposed protected areas in Vietnam. Second edition. Hanoi: BirdLife International in Indochina and the Ministry of Agriculture and Rural Development.