

## Birds recorded during a visit to Bhutan in spring 1993

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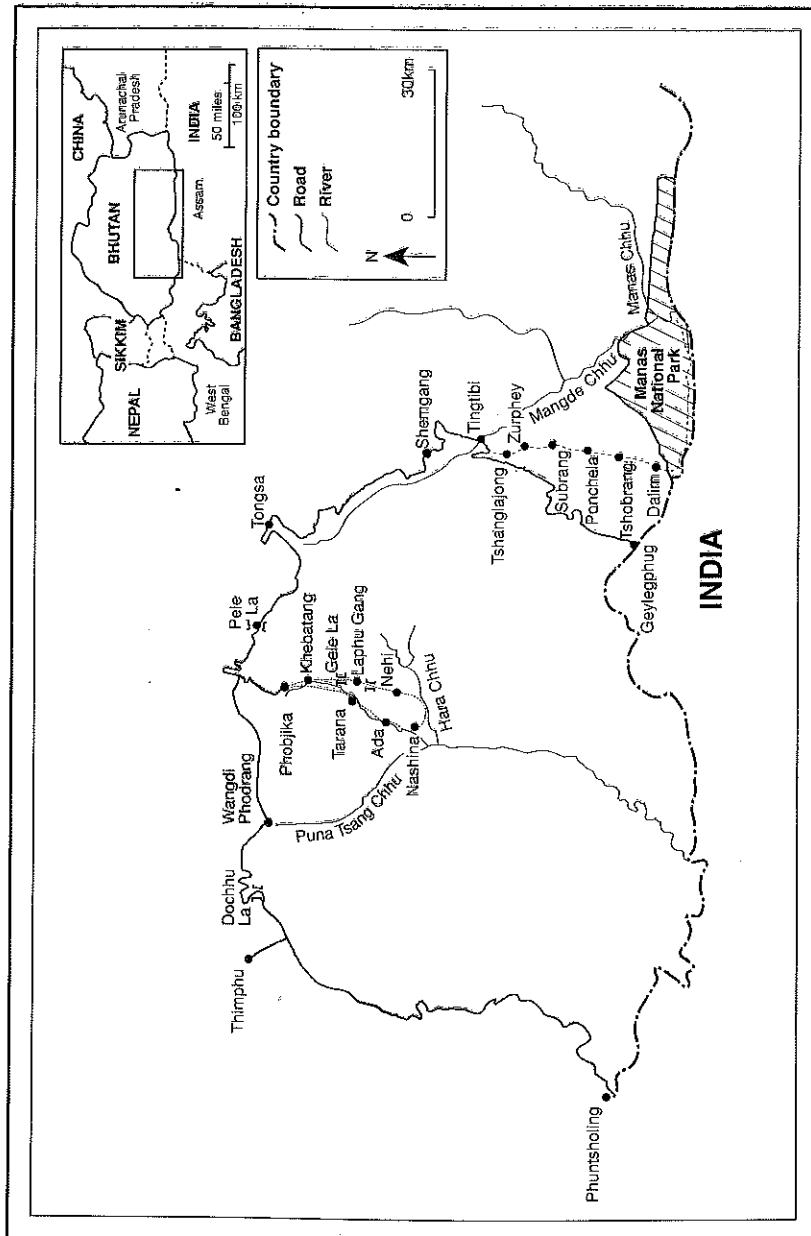
The birds recorded during a visit to Bhutan between 9 April and 31 May 1993 are documented. A total of 376 species was recorded of which 33 were apparently first published records for Bhutan, although previous unpublished records exist for 12 of the latter. A list is given of 114 bird species which have restricted breeding distributions and for which Bhutan may hold significant populations.

Baseline information is lacking on the bird species occurring in Bhutan and their status and distribution. About 580 species have so far been recorded and many more are likely to occur. These include 114 species for which Bhutan may support internationally significant breeding populations (see Appendix I). Their breeding ranges are restricted to an area encompassing the Himalayas, north-east India, northern South-East Asia and south-west China. The boundaries of this area are to some extent arbitrary, but do coincide roughly with the mountain ranges contiguous with the Himalayas and its neighbouring lowlands. Many of these species are temperate forest birds. This is because a high proportion of the remaining temperate forests in the Indian subcontinent lie in Bhutan.

A programme of wildlife inventory compilation alongside socio-economic assessment of communities living adjacent to protected areas is currently being carried out by the Royal Government of Bhutan Department of Forests and the WWF Bhutan Programme. The main objectives are to improve knowledge of Bhutan's natural environment, to help plan and establish a system of protected areas, and to develop an integrated conservation and development programme in protected areas in Bhutan. In April and May 1993 we were very fortunate to be invited to join the group of field workers engaged in this programme. Together with Kado Tshering and Pema Gyaltshen from the Department of Forests, we formed the avifauna team. We coordinated our activities with those of two other teams who made surveys of fauna, flora and socio-economic factors.

During our stay in Bhutan between 9 April and 31 May we recorded 331 bird species during the survey and an additional 45 species elsewhere in country. A swiftlet *Collocalia* species seen on several occasions may be an undescribed species. A list of recorded species, their habitats and altitudinal ranges are given in Appendix II. Thirty-three species were found for which there are no previously published records for Bhutan. Four species which have been identified as globally threatened by Collar and Andrew (1988)

Figure 1. Bhutan, showing locations mentioned in text.



were recorded: Rufous-necked Hornbill *Aceros nipalensis*, Pallas's Fish-Eagle *Haliaeetus leucoryphus*, White-bellied Heron *Ardea insignis* and Rufous-throated Wren-Babbler *Spelaeornis caudatus*. A total of 64 species for which Bhutan may support internationally significant breeding populations were also found.

After a few days in the capital, Thimphu (2,400 m) we drove to the Royal Manas National Park via Phuntsholing (350 m) on the southern border, and West Bengal and Assam in India. The wide braided channels and shingle islands of the Torsa river at Phuntsholing hold a wide variety of wetland birds, especially passage migrants. Between 17 and 25 April we recorded 16 new species for the country in Manas. Much of our time was spent in primary tropical evergreen and moist semi-evergreen forests.

We then walked north over the Himalayan foothills through the proposed link area between Manas National Park and the proposed Black Mountains Nature Reserve reaching Tingtibi (650 m) on 2 May. Apart from several villages and associated clearings for cultivation, the hills are largely clothed in primary broadleaved tropical and subtropical evergreen and moist semi-evergreen forests with patches of bamboo. Between Tshanglajong (1,065 m) and Tingtibi there are extensive stands of tall bamboo. The broadleaved evergreen forests and bamboo stands in the tropical and subtropical zones were found to be particularly interesting for birds and must of special importance ornithologically in the Indian subcontinent. These vegetation types, which are still substantially intact in Bhutan, are now scarce or absent in other Himalayan countries because of deforestation.

The Rufous-necked Hornbill, appeared to be fairly common in the broadleaved evergreen forests. Other birds recorded which have restricted ranges and are dependent on evergreen forest include Collared Treepie *Dendrocitta frontalis*, Spotted Wren-Babbler *Spelaeornis formosus*, Yellow-throated Fulvetta *Alcippe cinerea* and White-naped Yuhina *Yuhina bakeri*. The bamboo stands between Tshanglajong and Tingtibi are also important for several specialist birds which require this habitat, including the Lesser Rufous-headed Parrotbill *Paradoxornis atrosuperciliaris* of the very distinct subspecies *oatesi*. Apart from recent records in Bhutan this subspecies has only been previously recorded in Darjeeling and Sikkim in the last century. The Yellow-vented Warbler *Phylloscopus cantator*, which has a very restricted range, was found to be common in evergreen tropical and subtropical forests, and was regularly recorded in semi-evergreen forests. Most birds recorded were singing and presumably holding breeding territories.

On five days and around three villages between 650 m and 1,395 m we saw a swiftlet *Collocalia* species, probably a migrant, which we could not identify. The birds did not resemble any specimens of *Collocalia* species which we subsequently examined in the collection of the British Museum (Natural History). The tail furcation was similar to that of Himalayan Swiftlet

*Collocalia brevirostris*, but the bird was slightly larger and longer-winged. The plumage was generally blackish, with only a slightly paler rump, unlike the grey coloration and more contrasting paler rump of Himalayan Swiftlet. The flight was stronger, more direct and less 'fluttering' than the last species.

After spending a rest day at Tongsa (2,200 m) in central Bhutan, we carried out a survey in the proposed Black Mountains Nature Reserve between 7 and 22 May, covering the loop from Phobjika (2,780 m) to Ada (1,280 m) and back to Phobjika via the Gele La pass (3,630 m) and the Harachhu valley (1,125 - 1,445 m). The survey was largely in primary subtropical and temperate forests, mainly comprising broadleaves or mixed broadleaves/conifers with extensive stands of bamboo in the wetter areas and Chir Pine *Pinus roxburghii* covering drier slopes in the subtropical zone.

On this trek we had some logistical difficulties which prevented us adequately covering the higher altitude areas in the temperate zone. Many noteworthy bird species were still recorded in temperate forests however, including as many as 37 species for which Bhutan may support internationally significant breeding populations. One of these was the Satyr Tragopan *Tragopan satyra* which appeared to be fairly common in mixed coniferous/broadleaved forests between 2,805 m and 3,430 m. In its range outside of Bhutan this species is declining because of hunting and deforestation. As we left Phobjika and drove over the northern rim of the valley there was a sudden heavy shower and we were amazed to see a Whimbrel *Numenius phaeopus* by the roadside, grounded by the rain. This record is apparently the first for Bhutan.

The subtropical forests along the trail between Phobjika and Ada were found to be significantly less species-rich than those between Manas and Tingtibi. The former forests are drier and mainly semi-evergreen with only patches of evergreen character compared to the largely evergreen forests south of Tingtibi. One notable species in the subtropical semi-evergreen forests between Phobjika and Ada was the Yellow-vented Warbler, which was found to be fairly common. Three globally threatened species were recorded in the relatively moist forests around Ada: Rufous-necked Hornbill, White-bellied Heron and Rufous-throated Wren-Babbler. The heron, which was seen by a small lake at Ada, is of special interest because it has a restricted range, and also because there are very few recent world records of the species. Three pheasant chicks crossed our path near Ada lake and an anxious pair of Kalij Pheasants *Lophura leucomelanos* made a noisy distraction display, running in circles around us, only a few metres away and calling. The male was all black, a distinctive characteristic of subspecies *moffitti*. This is the first record of *moffitti* in the wild.

On 30 May we had a day's walk from Thimphu up to the Dochu La pass (3,530 m) via Tashigong monastery (3,265 m). The highlight was a male

Blue-fronted Robin *Cinclidium frontale*, a new species for Bhutan, which was feeding on the ground amongst mugwort *Artemisia dubia* and bushes at the edge of mixed forest close to the monastery.

#### ANNOTATED LIST OF SELECTED SPECIES

**BLACK PARTRIDGE** *Francolinus francolinus* One heard on 20 April at Manas National Park (350 m). Previously mentioned for Bhutan only by Ripley (1982), but apparently based on supposition (Ali *et al.* in press).

**INDIAN PEAFOWL** *Pavo cristatus* Two heard on 18 April at Manas National Park (250 m). Apparently the first published record for Bhutan.

**JAPANESE QUAIL** *Coturnix japonica* Recorded on 7 and 20-22 May in wheat fields in the Phobjika valley (2,800 m), with maximum of three heard and one seen on 22 May. Previously also recorded from Bhutan in the breeding season: collected by F. M. Bailey on 5 July 1922 (Bailey 1938) and recorded singing in suitable breeding habitat in 1990 by F. A. Clements in Bumthang on 29 April, Ugyencholing on 1 May and Gangtey Gumpa on 9 May (Clements 1992). These Bhutanese birds were probably breeding and were 2,000 km south-west of the nearest recorded nesting area in China, although a nest with eggs probably belonging to this species was found in Myanmar on 30 October 1935 (Livesey 1936).

**SATYR TRAGOPAN** *Tragopan satyra* Two heard on the Gele La on 7 and 8 May above 3,000 m, one male in the Phobjika valley on 20 May (2,805 m) and four males and one female near Tashigong monastery, Dochu La (3,165-3,430 m). There are several previous published records: Ali and Ripley (1987), Clements (1992), Inskipp and Inskipp (1993), Ludlow and Kinnear (1937), Singh (1985) and Vas (1986).

**KALIJ PHEASANT** *Lophura leucomelanos moffitti* An all black adult male, with a female and three chicks on 16 May near Ada (1,280 m). This is apparently the first observation of the *moffitti* subspecies in the wild. A bird collected from central Bhutan and stated to be of this subspecies by Ali and Ripley (1987), has now proved to be an intergrade between *melanota* and *lathami* (Ali *et al.* in press).

**NORTHERN SHOVELER** *Anas clypeata* A flock of 30 on 17 April flying up the Manas river in Manas National Park (250 m). Apparently the first published record for Bhutan, although previously recorded by Johnson (1993).

**GARGANEY** *Anas querquedula* A flock of ten on 17 April on the Torsa river at Phuntsholing (350 m). Apparently the first published record for Bhutan, although previously seen by Ali *et al.* (in press) and A. Pain (verbally 1993).

**BLUE-EARED BARBET** *Megalaima australis* Recorded from 20 - 23 April at Manas National Park (300-450 m) with a maximum of six on 22 April.

Previously mentioned only by Ali and Ripley (1987) and Ripley (1982), but apparently based on supposition (Ali *et al.* in press).

**BLACK-BACKED KINGFISHER** *Ceyx erithacus* Two on 21 and 22 April at Manas National Park (450 m). Previously mentioned for Bhutan only by Ali and Ripley (1987) and Ripley (1982), but apparently based on supposition (Ali *et al.* in press).

**RUDDY KINGFISHER** *Halcyon coromanda* Recorded from 20 - 22 April at Manas National Park (450-510 m), with a maximum of three on 21 April. Previously mentioned for Bhutan by Ali and Ripley (1987) and recorded by Ali *et al.* (in press).

**PIED KINGFISHER** *Ceryle rudis* One on 18 April at Manas National Park (250 m). Previously listed for Bhutan only by Ali and Ripley (1987), but apparently based on supposition (Ali *et al.* in press).

**RUFOUS-NECKED HORNBILL** *Aceros nipalensis* Recorded on 19, 24 and 25 April at Manas National Park (300-635 m), with a maximum of five on 25 April; one on 27 April at Dalim (710 m), three on 30 April at Subrang (1,400 m), one on 1 May between Zurphey and Tshanglajong (1,320 m), one on 2 May between Tshanglajong and Tingtibi, and one on 17 and 18 May at Ada (1,280 m). Apparently fairly common in tropical and subtropical broadleaved evergreen forests. Previously recorded by Clements (1992), Inskipp and Inskipp (1993), Ali *et al.* (in press) and Johnson (1993), and listed by Ali and Ripley (1987) and Ripley (1982).

**ASIAN EMERALD CUCKOO** *Chrysococcyx maculatus* Recorded from 20 - 22 April at Manas National Park (300-450 m), with a maximum of four on 22 April. One on 5 May at Tongsa (2,200 m). Singles at Lawa (1,125 m) on 11 and 14 May. Apparently the first published records for Bhutan, although previously recorded by Mills (1989).

**GREATER COUCAL** *Centropus sinensis* One on 20 and two on 22 April at Manas National Park (400 m), two on 12 May in the Harachhu valley (1,445 m) and one to two at Nashina on 15 and 16 May (1,515 m, 1,600 m). Previously mentioned for Bhutan only by Ali and Ripley (1987), but apparently based on supposition (Ali *et al.* in press).

**SWIFTLET** *Collocalia* Four seen on 27 and 28 April at Tshobrang (1,395 m), six on 1 May and 10 on 2 May at Tshanglajong (1,065 m) and one on 3 May at Tingtibi (650 m).

**CRESTED TREESWIFT** *Hemiprocne coronata* One on 20 April at Manas National Park (350 m). Apparently the first published record for Bhutan.

**ORIENTAL SCOPS-OWL** *Otus sunia* Two heard on 18 and 19 April at Manas National Park (250 m). Previously mentioned only by Ali and Ripley (1987) and Ripley (1982), but apparently based on supposition (Ali *et al.* in press).

**BROWN WOOD-OWL** *Strix leptogrammica* One heard on 10 May at Nehi (2,440 m). Apparently the first published record for Bhutan, but previously recorded by Ali *et al.* (in press).

**BROWN HAWK-OWL** *Ninox scutulata* One or two heard at Manas National Park from 18 to 22 April (250-450 m). Previously mentioned only by Ali and Ripley (1987) and Ripley (1982), but apparently based on supposition.

**RED COLLARED-DOVE** *Streptopelia tranquebarica* Three on 23 April at Manas National Park (380 m). Apparently the first published record for Bhutan, but previously recorded by Ali *et al.* (in press).

**ORANGE-BREASTED GREEN-PIGEON** *Treron bicincta* Three on 19 April and 2 on 20 April at Manas National Park (250 m). Previously listed for Bhutan only by Ripley (1982), but apparently based on supposition (Ali *et al.* in press).

**POMPADOUR GREEN-PIGEON** *Treron pompadora* Two on 23 April at Manas National Park (380 m). Apparently the first published record for Bhutan.

**THICK-BILLED GREEN-PIGEON** *Treron curvirostra* One on 20 April at Manas National Park (250 m). Apparently the first published record for Bhutan, although previously seen by Jepson (1989).

**WHIMBREL** *Numenius phaeopus* One on 22 May on the northern rim of the Phobjika valley (3,250 m). Apparently the first published record for Bhutan.

**COMMON GREENSHANK** *Tringa nebularia* One on 17 April at Phuntsholing (350 m). Previously recorded by Inskipp and Inskipp (1993) and Ali *et al.* (in press).

**EURASIAN THICK-KNEE** *Burhinus oedicnemus* Two on 18 April at Manas National Park (250 m). Apparently the first published record for Bhutan.

**LITTLE RINGED PLOVER** *Charadrius dubius* One on 17 April by the Torsa river at Phuntsholing (350 m). Apparently the first published record for Bhutan, although previously seen by Johnson (1993).

**SMALL PRATINCOLE** *Glareola lactea* Thirty on 16 April and 10 on 17 April by the Torsa river at Phuntsholing (350 m). Apparently the first published record for Bhutan, although previously recorded by Ali *et al.* (in press).

**GREAT BLACK-HEADED GULL** *Larus ichthyaetus* Two on 17 April by the Torsa river at Phuntsholing (350 m). Apparently the first published record for Bhutan, although previously seen by Johnson (1993).

**RIVER TERN** *Sterna aurantia* Five on 19 April flying up the Manas river in Manas National Park (250 m). Apparently the first published record for Bhutan.

PALLAS'S FISH-EAGLE *Haliaeetus leucoryphus* One on 18 April at Manas National Park (250 m). The previous published records are Inskipp and Inskipp (1993) and Ludlow and Kinnear (1937); also seen by Ali *et al.* (in press), Barber (1990-1991) and Johnson (1993).

WHITE-RUMPED VULTURE *Gyps bengalensis* Recorded on 16 and 17 April at Phuntsholing (350 m), 18-20 April at Manas National Park (250 m) and 11 May in the Harachhu valley (1,200 m), with a maximum of 10 on 18 April. Previously recorded by Inskipp and Inskipp (1993).

SHIKRA *Accipiter badius* One on 10 May in the Harachhu valley (1,125 m) and one on 18 May at Ada (1,280 m). Previously recorded by Inskipp and Inskipp (1993).

BOOTED EAGLE *Hieraaetus pennatus* One on 18 April at Manas National Park (250 m). Apparently the first published record for Bhutan, although previously seen by Mills (1989).

LITTLE CORMORANT *Phalacrocorax niger* Thirty on 16 April and 10 on 17 April by the Torsa river at Phuntsholing (350 m). Previously recorded by Inskipp and Inskipp (1993).

LITTLE EGRET *Egretta garzetta* One on 16 April and three on 17 April by the Torsa river at Phuntsholing (350 m). Previously recorded by Inskipp and Inskipp (1993).

GREY HERON *Ardea cinerea* One on 17-19 April by the Manas river in Manas National Park (250 m). Previously only listed for Bhutan by Scott (1989).

WHITE-BELLIED HERON *Ardea insignis* One on 16 and 17 April by Ada Lake (1,280 m). Previously recorded only by Inskipp and Inskipp (1993).

INTERMEDIATE EGRET *Mesophoyx intermedia* One on 17 April by the Torsa river at Phuntsholing (350 m). Apparently the first published record for Bhutan.

CATTLE EGRET *Bubulcus ibis* Fifty on 16 April and 20 on 17 April by the Torsa river at Phuntsholing (350 m). Previously recorded by Inskipp and Inskipp (1993) and Ali *et al.* (in press).

STRIATED HERON *Butorides striatus* One on 17 April by the Manas river at Manas National Park (250 m). Apparently the first published record for Bhutan.

COLLARED TREEPIE *Dendrocitta frontalis* One on 24 April and five on 25 April at Manas National Park (510-635 m), two on 26 April near Dalim (620 m) and three on 27 April between Dalim and Tshobrang (710 m). Previously recorded by Jepson (1988) and Inskipp and Inskipp (1993). Listed for Bhutan by Ripley (1982), but apparently based on supposition (Ali *et al.* in press).

LARGE CUCKOO-SHRIKE *Coracina macei* One to two on 20, 22 and 23 April at Manas National Park (350-450 m). Previously recorded by Clements (1992).

ROSY MINIVET *Pericrocotus roseus* One on 20 April and two on 22 April at Manas National Park (300-450 m). Apparently the first published records for Bhutan.

CROW-BILLED DRONGO *Dicrurus annectans* Recorded on 11 dates between 19 April and 14 May between 300 m and 1450 m, with a maximum of seven on 22 April at Manas National Park between 350 and 480 m. Apparently fairly common. Previously recorded by Inskipp and Inskipp (1993), and listed by Ali and Ripley (1987), but the latter is apparently based on supposition (Ali *et al.* in press).

LESSER SHORTWING *Brachypteryx stellata* Four on 28 April at Tshobrang (1,595 m), one on 7 May between Phobjika and Khebitanka (2,725 m) five on 9 May above Laphu Gang (3,150-3,280 m) and one on 20 May above Tarana (2,435 m). Previously mentioned only by Ali and Ripley (1987) and Ripley (1982), but apparently based on supposition.

ASIAN BROWN FLYCATCHER *Muscicapa dauurica* One on 21 April at Manas National Park (450 m). Previously recorded by Inskipp and Inskipp (1993), and listed by Ali and Ripley (1983), but the latter is apparently based on supposition (Ali *et al.* in press).

PALE-CHINNED FLYCATCHER *Cyornis poliogenys* Three on 22 April at Manas National Park (400 m), one on 16 May between Nashina and Ada (1,335 m) and two on 18 May near Ada (1,260 m). Previously listed for Bhutan only by Ali and Ripley (1987) and seen by Ali *et al.* (in press).

BLUE-FRONTED ROBIN *Cinclidium frontale* A male on 30 May by Tashigong monastery, Dochu La (3,265 m). Apparently the first published record for Bhutan. This species has rarely been observed in the field and is very poorly known (Redman 1992).

VELVET-FRONTED NUTHATCH *Sitta frontalis* Two on 26 April at Manas National Park (350 m). Previously listed only by Ali and Ripley (1987) and Ripley (1982), apparently based on supposition (Ali *et al.* in press).

GREY-CROWNED PRINIA *Prinia cinereocapilla* Three on 3 May at Tingtibi (700 m), two on 15 May at Nashina (1,220 m) and one on 17 May at Ada (1,300 m). Previously listed only by Ali and Ripley (1987) and Ripley (1982), but apparently based on supposition (Ali *et al.* in press).

BLYTH'S REED-WARBLER *Acrocephalus dumetorum* One to two on 21-23 April at Manas National Park (380-450 m), two on 26 April at Dalim (710 m), one on 28 April between Tshobrang and Ponchela (1,400 m) and one on 30 April between Subrang and Zurphey (1,460 m). Previously listed for Bhutan by Ali and Ripley (1987), and recorded by Ali *et al.* (in press). Apparently fairly common.

YELLOW-VENTED WARBLER *Phylloscopus cantator* Recorded on 17 dates between 19 April and 18 May from 300 m to 1,540 m, with a maximum

of 16 on 24 April in Manas National Park from 380 to 510 m. Most common in broadleaved evergreen forest. Previously listed for Bhutan by Abdulali (1986) and Ali and Ripley (1987), and recorded by Ali *et al.* (in press) and Johnson (1993).

**RUFOUS-THROATED WREN-BABBLER** *Spelaeornis caudatus* One on 19 May above Ada (1,630 m). Previously listed for Bhutan by Abdulali (1983) and Ali and Ripley (1987), and recorded by Ludlow and Kinnear (1937), Ludlow and Kinnear (1944) and Ali *et al.* (in press).

**SPOTTED WREN-BABBLER** *Spelaeornis formosus* One on 3 May at Tingtibi (770 m). Previously listed for Bhutan by Abdulali (1983) and Ali and Ripley (1987), and recorded by Ludlow and Kinnear (1937) and Ali *et al.* (in press).

**WHITE-HOODED BABBLER** *Gampsorhynchus rufulus* Four on 2 May between Tshanglajong and Tingtibi (915 m). Apparently the first published record for Bhutan, although previously seen by Anon. (1992).

**YELLOW-THROATED FULVETTA** *Alcippe cinerea* Ten on 28 April above Tshobrang (1595 m). Previously listed for Bhutan by Abdulali (1984) and Ali and Ripley (1987), and recorded by Inskipp and Inskipp (1993), Ludlow and Kinnear (1944) and Ali *et al.* (in press).

**WHITE-NAPED YUHINA** *Yuhina bakeri* Three on 25 April at Manas National Park (550 m), three on 25 April between Manas and Dalim (580 m), two carrying nest material on 26 April at Dalim (620 m) and two on 27 April between Dalim and Tshobrang (740 m). Previously listed for Bhutan by Abdulali (1969-1992) and Ali and Ripley (1987), and recorded by Clements (1992), Inskipp and Inskipp (1993), Ali *et al.* (in press) and Johnson (1993).

**LESSER RUFOUS-HEADED PARROTBILL (BLACK-BROWED PARROTBILL)** *Paradoxornis atrosuperciliaris* Two on 27 April at Dalim (710 m) and 15 on 2 May between Tshanglajong and Tingtibi (915 m) were of the western race *oatesi*, which lacks a black eyebrow, hence the choice of English name. Apparently the first published record for Bhutan, although previously seen by Anon. (1992) and Johnson (1993).

**WHITE-BROWED WAGTAIL** *Motacilla maderaspatensis* Two on 17 April by the Torsa river at Phuntsholing (350 m) and one on 17 April by the Manas river at Manas National Park (250 m). Previously recorded by Inskipp and Inskipp (1993) and Ali *et al.* (in press).

**BLACK-FACED BUNTING** *Emberiza spodocephala* One on 30 April in fields at Subrang (1,400 m). Apparently the first published record for Bhutan.

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## APPENDIX I

BIRD SPECIES FOR WHICH BHUTAN MAY HOLD  
SIGNIFICANT BREEDING POPULATIONS

<i>Lerwa lerwa</i>	Snow Partridge	
<i>Arborophila mandelli</i>	Chestnut-breasted Partridge	
<i>Ithaginis cruentus</i>	Blood Pheasant	+
<i>Tragopan satyra</i>	Satyr Tragopan	+
<i>Tragopan blythii</i>	Blyth's Tragopan	
<i>Lophophorus impejanus</i>	Impeyan Monal	[+]
<i>Dendrocopos cathpharicus</i>	Crimson-breasted Woodpecker	
<i>Dendrocopos darjellensis</i>	Darjeeling Woodpecker	+
<i>Harpactes wardi</i>	Ward's Trogon	
<i>Psittacula himalayana</i>	Slaty-headed Parakeet	
<i>Columba hodgsonii</i>	Speckled Wood-Pigeon	+
<i>Columba pulchricollis</i>	Ashy Wood-Pigeon	
<i>Gallinago nemoricola</i>	Wood Snipe	
<i>Pitta nipalensis</i>	Blue-naped Pitta	
<i>Lanius tephronotus</i>	Grey-backed Shrike	+
<i>Urocissa flavivestris</i>	Gold-billed (Yellow-billed Blue) Magpie	+
<i>Dendrocitta frontalis</i>	Collared Treepie	+
<i>Rhipidura hypoxantha</i>	Yellow-bellied Fantail	+
<i>Monticola cinclorhynchus</i>	Blue-capped Rock-Thrush	+
<i>Zoothera mollissima</i>	Plain-backed Thrush	[+]
<i>Zoothera dixonii</i>	Long-tailed Thrush	[+]
<i>Zoothera monticola</i>	Long-billed Thrush	
<i>Turdus unicolor</i>	Indian Grey Thrush	
<i>Turdus albocinctus</i>	White-collared Blackbird	+
<i>Turdus boulboul</i>	Grey-winged Blackbird	+
<i>Brachypteryx stellata</i>	Gould's Shortwing	
<i>Ficedula hodgsonii</i>	Slaty-backed Flycatcher	
<i>Ficedula superciliosa</i>	Ultramarine Flycatcher	+
<i>Ficedula sapphira</i>	Sapphire Flycatcher	
<i>Niltava sundara</i>	Rufous-bellied Niltava	+
<i>Luscinia brunnea</i>	Indian Blue Robin	+
<i>Tarsiger chrysaeus</i>	Golden Bush-Robin	[+]
<i>Tarsiger indicus</i>	White-browed Bush-Robin	+
<i>Tarsiger hyperythrus</i>	Rufous-breasted Bush-Robin	
<i>Phoenicurus schisticeps</i>	White-throated Redstart	
<i>Phoenicurus frontalis</i>	Blue-fronted Redstart	[+]
<i>Cinclidium frontale</i>	Blue-fronted Robin	[+]
<i>Hodgsonius phoenicuroides</i>	White-bellied Redstart	
<i>Grandala coelicolor</i>	Grandala	
<i>Enicurus immaculatus</i>	Black-backed Forktail	+
<i>Cochoa purpurea</i>	Purple Cochoa	
<i>Sitta himalayensis</i>	White-tailed Nuthatch	+
<i>Certhia nipalensis</i>	Rusty-flanked Tree-creeper	+
<i>Cephalopyrus flammiceps</i>	Fire-capped Tit	
<i>Parus rubidiventris</i>	Rufous-vented Tit	+
<i>Parus dichrous</i>	Grey-crested Tit	+
<i>Aegithalos iouschistos</i>	Black-browed Tit	+
<i>Delichon nipalensis</i>	Nepal House-Martin	+
<i>Pycnonotus striatus</i>	Striated Bulbul	+

<i>Prinia cinerocapilla</i>	Grey-crowned Prinia	+
<i>Tesia castaneocoronata</i>	Chestnut-headed Tesia	+
<i>Cettia pallidipes</i>	Pale-footed Bush-Warbler	
<i>Cettia major</i>	Chestnut-crowned Bush-Warbler	
<i>Cettia flavolivacea</i>	Aberant Bush-Warbler	[+]
<i>Cettia brunneifrons</i>	Grey-sided Bush-Warbler	+
<i>Phylloscopus fuliginiventer</i>	Smoky Warbler	
<i>Phylloscopus pulcher</i>	Buff-barred Warbler	+
<i>Phylloscopus magnirostris</i>	Large-billed Leaf-Warbler	+
<i>Phylloscopus cantator</i>	Yellow-vented Warbler	+
<i>Seicercus xanthaschistos</i>	Grey-hooded Warbler	+
<i>Seicercus poliogenys</i>	Grey-checked Warbler	
<i>Tickellia hodgsonii</i>	Broad-billed Warbler	
<i>Abroscopus schisticeps</i>	Black-faced Warbler	+
<i>Garrulax abogularis</i>	White-throated Laughingthrush	+
<i>Garrulax striatus</i>	Striated Laughingthrush	+
<i>Garrulax ruficollis</i>	Rufous-necked Laughingthrush	+
<i>Garrulax rufogularis</i>	Rufous-chinned Laughingthrush	+
<i>Garrulax ocellatus</i>	Spotted Laughingthrush	+
<i>Garrulax caeruleatus</i>	Grey-sided Laughingthrush	
<i>Garrulax squamatus</i>	Blue-winged Laughingthrush	
<i>Garrulax subunicolor</i>	Scaly Laughingthrush	+
<i>Garrulax affinis</i>	Black-faced Laughingthrush	+
<i>Liocichla phoenicea</i>	Red-faced Liocichla	+
<i>Xiphirhynchus superciliosus</i>	Slender-billed Scimitar-Babbler	
<i>Phoenopygia albiventer</i>	Scaly-breasted Wren-Babbler	
<i>Spelaeonis caudatus</i>	Rufous-throated Wren-Babbler	+
<i>Spelaeonis troglodytoides</i>	Bar-winged Wren-Babbler	
<i>Spelaeonis formosus</i>	Spotted Wren-Babbler	+
<i>Pteruthius rufoventer</i>	Black-headed Shrike-Babbler	
<i>Pteruthius xanthochlorus</i>	Green Shrike-Babbler	
<i>Actinodura egertoni</i>	Rusty-fronted Barwing	+
<i>Actinodura nipalensis</i>	Hoary-throated Barwing	+
<i>Minla ignotincta</i>	Red-tailed Minla	+
<i>Alcippe chrysolis</i>	Golden-breasted Fulvetta	+
<i>Alcippe cinerea</i>	Yellow-throated Fulvetta	+
<i>Alcippe vinipectus</i>	White-browed Fulvetta	+
<i>Alcippe ludlowi</i>	Ludlow's Fulvetta	
<i>Alcippe nipalensis</i>	Nepal Fulvetta	+
<i>Heterophasia capistrata</i>	Rufous Sibia	+
<i>Yuhina bakeri</i>	White-naped Yuhina	+
<i>Yuhina flavicollis</i>	Whiskered Yuhina	+
<i>Yuhina gularis</i>	Stripe-throated Yuhina	+
<i>Yuhina occipitalis</i>	Rufous-vented Yuhina	+
<i>Myzornis pyrrhoura</i>	Fire-tailed Myzornis	
<i>Conostoma oemodium</i>	Great Parrotbill	
<i>Paradoxornis unicolor</i>	Brown Parrotbill	
<i>Paradoxornis fulvifrons</i>	Fulvous Parrotbill	
<i>Dicaeum melanoxanthum</i>	Yellow-bellied Flowerpecker	
<i>Aethopygia ignicauda</i>	Fire-tailed Sunbird	
<i>Prunella rubeculoides</i>	Robin Accentor	
<i>Prunella strophiaata</i>	Rufous-breasted Accentor	+
<i>Ploceus benghalensis</i>	Black-breasted Weaver	
<i>Carpodacus rubescens</i>	Crimson Rosefinch	
<i>Carpodacus nipalensis</i>	Dark-breasted Rosefinch	
<i>Carpodacus rodochrous</i>	Pink-browed Rosefinch	



<i>Carpodacus edwardsii</i>	Dark-rumped Rosefinch	
<i>Carpodacus thura</i>	White-browed Rosefinch	
<i>Carpodacus rubicilloides</i>	Streaked Rosefinch	
<i>Pinnicola subhimachalus</i>	Crimson-browed Finch	
<i>Haematospiza sipahi</i>	Scarlet Finch	+
<i>Pyrrhula erythrocephala</i>	Red-headed Bullfinch	+
<i>Mycerobas affinis</i>	Collared Grosbeak	
<i>Mycerobas melanozanthos</i>	Spot-winged Grosbeak	
<i>Pyrrhoptectes epauletta</i>	Gold-naped Finch	+

+ = species recorded during survey

[+] = species recorded elsewhere in Bhutan in April and May 1993

## APPENDIX II

### BIRDS RECORDED IN APRIL AND MAY 1993

Species	Habitats	Altitudinal range (m)	Localities
BLACK FRANCOLIN <i>Francolinus francolinus</i>	T	350	6
JAPANESE QUAIL <i>Coturnix japonica</i>	F	2800	19
HILL PARTRIDGE <i>Arborophila torqueola</i>	BXC	2315-3150	u
RUFIOUS-THROATED PARTRIDGE <i>Arborophila rufogularis</i>	SU	1125-1540	u
BLOOD PHEASANT <i>Ithaginis cruentus</i>	X	3220	21
SATYR TRAGOPAN <i>Tragopan satyra</i>	X	2805-3430	21,31,33
IMPEYAN MONAL <i>Lophophorus impejanus</i>			33
RED JUNGLEFOWL <i>Gallus gallus</i>	T	250-710	6,8
KALIJ PHEASANT <i>Lophura leucomelanos</i>	TU	750-1585	8,15,29
GREY PEACOCK-PHEASANT <i>Polyplectron bicalcaratum</i>	TSU	380-1040	6,7,9,11,13,27
INDIAN PEAFOWL <i>Pavo cristatus</i>	T	250	6
RUDDY SHELDUCK <i>Tadorna ferruginea</i>	TR	250	6
NORTHERN SHOVELER <i>Anas clypeata</i>	TR	250	6
GARGANEY <i>Anas querquedula</i>	R		350 5
COMMON MERGANSER <i>Mergus merganser</i>	R		350 5
SPECKLED PICULET <i>Picumnus innominatus</i>	T	380-400	6
GREY-CAPPED WOODPECKER <i>Dendrocopos canicapillus</i>	TSU	250-1290	6,12,25,29
RUFIOUS-BELLIED WOODPECKER <i>Dendrocopos hyperythrus</i>	U[B]XCH	1295-3395	3,20-22,24-26, 28,33
DARJEELING WOODPECKER <i>Dendrocopos darjellensis</i>	BX	2250-3130	3,21,30
RUFIOUS WOODPECKER <i>Ceuleus brachyurus</i>	T	380	6
LESSER YELLOWNAPE <i>Picus chlorolophus</i>	TSU	250-1655	6,8,10,25,29
GREATER YELLOWNAPE <i>Picus flavimucha</i>	TU	250-1330	6,7,13,25,29
GREY-HEADED WOODPECKER <i>Picus canus</i>	TSU	300-1390	6-9,13,28-30
HIMALAYAN FLAMEBACK <i>Dinopium shorii</i>	T	250-400	6
BAY WOODPECKER <i>Blythipicus pyrrhotis</i>	TSU	950-1450	10,13,29
GREAT BARBET <i>Megalaima virens</i>	TSUB	250-2900	u
LINEATED BARBET <i>Megalaima lineata</i>	T	250-1000	5,6
GOLDEN-THROATED BARBET <i>Megalaima franklinii</i>	TSUB	570-1600	u
BLUE-THROATED BARBET <i>Megalaima asiatica</i>	TSUF	250-1445	u
BLUE-EARED BARBET <i>Megalaima australis</i>	T	380-450	6

ORIENTAL PIED-HORNBILL <i>Anthracoceros albirostris</i>	T	250-450	6
GREAT HORNBILL <i>Buceros bicornis</i>	TSU	250-1320	6,11-13,25
RUFIOUS-NECKED HORNBILL <i>Aceros nipalensis</i>	TSU	300-1450	6,7,11-13,29
WREATHED HORNBILL <i>Aceros undulatus</i>	T	250-655	6,7
EURASIAN HOOPOE <i>Upupa epops</i>	SF	350-2870	1,2,5,10,11, 16,18,19
RED-HEADED TROGON <i>Harpactes erythrocephalus</i>	TU	620-1285	7,8,25
INDIAN ROLLER <i>Coracias benghalensis</i>	T	250-380	6
DOLLARBIRD <i>Eurystomus orientalis</i>	T	250-400	6
COMMON KINGFISHER <i>Alcedo atthis</i>	TR	250-1280	5,6,29
BLACK-BACKED KINGFISHER <i>Ceyx erithacus</i>	T	450	6
RUDDY KINGFISHER <i>Halcyon coromanda</i>	T	450-510	6
WHITE-THROATED KINGFISHER <i>Halcyon smymensis</i>	TR	250-450	5,6
CRESTED KINGFISHER <i>Megaceryle lugubris</i>	TSR	250-1280	5,8,11,14,25, 29
PIED KINGFISHER <i>Ceryle rudis</i>	T	250	6
BLUE-BEARDED BEE-EATER <i>Nyctornis atheroni</i>	T	650	7
CHESTNUT-HEADED BEE-EATER <i>Merops leschenaulti</i>	T	300-380	6
CHESTNUT-WINGED CUCKOO <i>Clamator coromandus</i>	T	380-895	6-8,13,14
LARGE HAWK-CUCKOO <i>Cuculus sparverioides</i>	TSPUBX	1320-3000+	u
COMMON HAWK-CUCKOO <i>Cuculus varius</i>	TS	400-710	5-7
INDIAN CUCKOO <i>Cuculus micropterus</i>	TSPUB	250-2000	u
COMMON CUCKOO <i>Cuculus canorus</i>	TU[X]CF	900-2870	13,19,26-29
ORIENTAL CUCKOO <i>Cuculus saturatus</i>	TSPU[X]	250-2200	u
LESSER CUCKOO <i>Cuculus poliocephalus</i>	TSUB	400-2530	6,10,23,29,30, 32
GREY-BELLIED CUCKOO <i>Cacomantis passerinus</i>	TS	250-1395	6,9
ASIAN EMERALD CUCKOO <i>Chrysococcyx maculatus</i>	TU	300-2200	6,16,25,26
DRONGO CUCKOO <i>Surniculus lugubris</i>	TSU	250-1600	u
GREEN-BILLED MALKOHA <i>Phaenicophaeus tristis</i>	T	250-450	6
GREATER COUCAL <i>Centropus sinensis</i>	TUF	400-1600	6,25,27
LESSER COUCAL <i>Centropus bengalensis</i>	T	400-450	6
RED-BREASTED PARAKEET <i>Psittacula alexandri</i>	T	250-450	6
HIMALAYAN SWIFTLET <i>Collocalia brevirostris</i>	TS	450-2500	2,3,6,7,25,29, 30
SWIFTLET <i>Collocalia</i> species	TSF	650-1395	8,12,14
WHITE-THROATED NEEDLETAIL <i>Hirundapus caudacutus</i>	TSX	450-2800	6,7,9,12,14,20, 25,30,32
ASIAN PALM-SWIFT <i>Cypsiurus balasienis</i>	T	250	6
FORK-TAILED SWIFT <i>Apus pacificus</i>	TS	450-2440	u
HOUSE SWIFT <i>Apus nipalensis</i>	TF	350-1330	5,6,29
CRESTED TREESWIFT <i>Hemiprocne coronata</i>	T	350	6
MOUNTAIN SCOPS-OWL <i>Otus spilocephalus</i>	TSU	400-1400	6-8,10,11,13 14,29
ORIENTAL SCOPS-OWL <i>Otus sunia</i>	T	250	6
COLLARED SCOPS-OWL <i>Otus lempiji</i>	TSU	250-1395	6-8,13,25,27
TAWNY FISH-OWL <i>Ketupa flavipes</i>	UR	1050-1330	25,29
BROWN WOOD-OWL <i>Strix leptogrammica</i>	B	2440	23
TAWNY OWL <i>Strix aluco</i>	UX	2900	19,21,32
COLLARED OWLET <i>Glaucidium brodiei</i>	TSU	300-2900	6,8,10,11,14,20,25
ASIAN BARRED OWLET <i>Glaucidium cuculoides</i>	TUX	250-2700	6,7,14,20,26,29
BROWN HAWK-OWL <i>Ninox scutulata</i>	T	250-510	6
GREY NIGHTJAR <i>Caprimulgus indicus</i>	TUXH	250-2700	6,14,20,25,27, 29
LARGE-TAILED NIGHTJAR <i>Caprimulgus macrurus</i>	T	250-380	6



ROCK PIGEON <i>Columba livia</i>	F	350-2500	1,2,5
SNOW PIGEON <i>Columba leucozona</i>	F	2500	2
SPECKLED WOOD-PIGEON <i>Columba hodgsonii</i>	C	2800-3205	2,3,19,33
ORIENTAL TURTLE-DOVE <i>Streptopelia orientalis</i>	TSUXF	380-2870	u
SPOTTED DOVE <i>Streptopelia chinensis</i>	TSF	250-1525	u
RED COLLARED-DOVE <i>Streptopelia tranquebarica</i>	T	380	6
EURASIAN COLLARED-DOVE <i>Streptopelia decacoto</i>	F	350	5
BARRED CUCKOO-DOVE <i>Macropygia unchall</i>	TS	250-1395	6-11
EMERALD DOVE <i>Chalcophaps indica</i>	T	250-930	6,13,15
ORANGE-BREASTED GREEN-PIGEON <i>Treron biceincta</i>	T	250	6
POMPADOUR GREEN-PIGEON <i>Treron pompadora</i>	T	380	6
THICK-BILLED GREEN-PIGEON <i>Treron curvirostra</i>	T	250	6
PIN-TAILED GREEN-PIGEON <i>Treron apicauda</i>	T	250-655	6,7
WEDGE-TAILED GREEN-PIGEON <i>Treron sphenura</i>	UB	1220-1935	25-27,29,30
MOUNTAIN IMPERIAL-PIGEON <i>Ducula badia</i>	TSB	250-2440	5,8,10,11,13,23
EURASIAN WOODCOCK <i>Scolopax rusticola</i>	XC	2800-3060	19,20,33
WHIMBREL <i>Numenius phaeopus</i>	F	3250	32
COMMON GREENSHANK <i>Tringa nebularia</i>	R	350	5
GREEN SANDPIPER <i>Tringa ochropus</i>	TR	350-380	5,6
COMMON SANDPIPER <i>Tringa hypoleucos</i>	R	350-2500	2,5,17
EURASIAN THICK-KNEE <i>Burhinus oediconemus</i>	TR	250	6
LITTLE RINGED PLOVER <i>Charadrius dubius</i>	R	350	5
RIVER LAPWING <i>Vanellus duvaucelii</i>	TR	250-650	5,6
RED-WATTLED LAPWING <i>Vanellus indicus</i>	TR	250-450	6
SMALL PRATINCOLE <i>Gareola lactea</i>	R	350	5
GREAT BLACK-HEADED GULL <i>Larus ichthyaetus</i>	R	350	5
RIVER TERN <i>Sterna aurantia</i>	TR	250	6
OSPREY <i>Pandion haliaetus</i>	TR	250	5,6
ORIENTAL HONEY-BUZZARD <i>Peris ptilorhynchus</i>	T	250-450	5,6
BLACK KITE <i>Milvus migrans</i>	T	350-710	5-7
BLACK-EARED KITE <i>Milvus lineatus</i>	X[F]	2800	2,20
PALLAS'S FISH-EAGLE <i>Haliaeetus leucorhynchus</i>	TR	250	6
WHITE-RUMPED VULTURE <i>Gyps bengalensis</i>	T	250-1200	5,6,25
HIMALAYAN GRIFFON <i>Gyps himalayensis</i>		3130	18
CRESTED SERPENT-EAGLE <i>Spilornis cheela</i>	TSU	250-1290	6,7,11,13,25
CRESTED GOSHAWK <i>Accipiter trivirgatus</i>	TSU	400-1500	6,7,11,25
SHIKRA <i>Accipiter badius</i>	U	1125-1280	25,29
BESRA <i>Accipiter virgatus</i>	X	2500-2895	2,21
EURASIAN SPARROWHAWK <i>Accipiter nisus</i>	C	2550	2
COMMON BUZZARD <i>Buteo buteo</i>	T	250-2550	1,2,6
BLACK EAGLE <i>Icthyophaga malayensis</i>	TSU[X]B	250-3000	2,4,6,8,9,11,15, 18,25,28,29,30, 33
STEPPE EAGLE <i>Aquila nipalensis</i>	T	250-350	5,6
BOOTED EAGLE <i>Hieraetus pennatus</i>	T	250	6
RUFIOUS-BELLIED EAGLE <i>Hieraetus kienerii</i>	TSU	450-1395	6-8,25
MOUNTAIN HAWK-EAGLE <i>Spizaetus nipalensis</i>	SUX	1280-2800	8,9,11,20,28, 29,30,33
COLLARED FALCONET <i>Microhierax caerulescens</i>	T	250-400	6
COMMON KESTREL <i>Falco tinnunculus</i>	F	1125-2550	2,15,25
EURASIAN HOBBY <i>Falco subbuteo</i>	X	2550-2800	2,20
PEREGRINE FALCON <i>Falco peregrinus</i>	F	2400	2
LITTLE CORMORANT <i>Phalacrocorax niger</i>	R	350	5
GREAT CORMORANT <i>Phalacrocorax carbo</i>	R	350	1,5
LITTLE EGRET <i>Egretta garzetta</i>	R	350	5

GREY HERON <i>Ardea cinerea</i>	TR	250	6
WHITE-BELLIED HERON <i>Ardea insignis</i>	UR	1330	29
GREAT EGRET <i>Casmerodius albus</i>	R	350	5
INTERMEDIATE EGRET <i>Mesophoyx intermedia</i>	R	350	5
CATTLE EGRET <i>Bubulcus ibis</i>	R	350	5
INDIAN POND-HERON <i>Ardeola grayii</i>	R	350	5
STRIATED HERON <i>Butorides striatus</i>	TR	250	6
BLACK STORK <i>Ciconia nigra</i>	TR	600	6
LONG-TAILED BROADBILL <i>Psearisomus dalhousiae</i>	T	510	6
ASIAN FAIRY-BLUEBIRD <i>Irena puella</i>	T	250-510	6
GOLDEN-FRONTED LEAFBIRD <i>Chloropsis aurifrons</i>	T	250-450	6
ORANGE-BELLIED LEAFBIRD <i>Chloropsis hardwickii</i>	TSU	380-1445	5,7,8,11,13, 25,27-30
BROWN SHRIKE <i>Lanius cristatus</i>	T	800	6,15
LONG-TAILED SHRIKE <i>Lanius schach</i>	SF	1065-1700	11,12,15,25,32
GREY-BACKED SHRIKE <i>Lanius tephronotus</i>	TSCF	350-3335	u
EURASIAN JAY <i>Garrulus glandarius</i>	UB	1595-2435	3,26
YELLOW-BILLED BLUE (GOLD-BILLED)			
MAGPIE <i>Urocissa flavirostris</i>	XC	1945-3220	2,4,18,20-22, 32,33
GREEN MAGPIE <i>Cissa chinensis</i>	TSU	620-1570	7,8,13,25,29,30
GREY TREEPIE <i>Dendrocitta formosae</i>	TSU	380-1400	u
COLLARED TREEPIE <i>Dendrocitta frontalis</i>	T	510-710	6-8
SPOTTED NUTCRACKER <i>Nucifraga caryocatactes</i>	XCF	2550-3480	u
RED-BILLED CHOUGH <i>Pyrhocorax pyrrhocorax</i>	F	2200-2870	1,2,16,19
HOUSE CROW <i>Corvus splendens</i>	F	350-2500	2,5
LARGE-BILLED CROW <i>Corvus macrorhynchos</i>	TS[X]F	350-3155	u
ASHY WOOD-SWALLOW <i>Artamus leucorhynchus</i>	TSF	380-1065	5,6,12
EURASIAN GOLDEN-ORIOLE <i>Oriolus oriolus</i>	T	300-450	6
SLENDER-BILLED ORIOLE <i>Oriolus tenuirostris</i>	UH	1125-1445	25-28
BLACK-HOODED ORIOLE <i>Oriolus xanthornus</i>	T	250-450	6
MAROON ORIOLE <i>Oriolus traillii</i>	TSUB	450-2440	6-9,11,13,23, 28-30
LARGE CUCKOO-SHRIKE <i>Coracina macei</i>	T	350-450	6
BLACK-WINGED CUCKOO-SHRIKE <i>Coracina melaschistos</i>	TSUB	400-2440	u
ROSY MINIVET <i>Pericrocotus roseus</i>	T	300-450	6
GREY-CHINNED MINIVET <i>Pericrocotus solaris</i>	TSU	510-1420	6,11,28
LONG-TAILED MINIVET <i>Pericrocotus ethologus</i>	UBXC	1100, 2275-3220	u
SHORT-BILLED MINIVET <i>Pericrocotus brevirostris</i>	TS	710-1590	710-1590
SCARLET MINIVET <i>Pericrocotus flammeus</i>	TSU	250-1700	4,6-9,11,13,25, 29
BAR-WINGED FLYCATCHER-SHRIKE <i>Hemipus picatus</i>	TU	250-1445	6,13,25,29
YELLOW-BELLIED FANTAIL <i>Rhipidura hypoxantha</i>	X	2550-3280	3,21,22,33
WHITE-THROATED FANTAIL <i>Rhipidura albicollis</i>	SUB	1000-2435	4,9-11,16,25,31
BLACK DRONGO <i>Dicrurus macrocerus</i>	F	350	5
ASHY DRONGO <i>Dicrurus leucophaeus</i>	TSUBF	250-2440	u
CROW-BILLED DRONGO <i>Dicrurus amictans</i>	TSU	300-1450	6-8,11,13,25,26
BRONZED DRONGO <i>Dicrurus aeneus</i>	TS	250-1200	5-9,11,13
LESSER RACKET-TAILED DRONGO <i>Dicrurus remifer</i>	TSU	510-1545	6-9,11,25
HAIR-CRESTED DRONGO <i>Dicrurus hottentottus</i>	TU	250-1280	6,7,25,29
GREAT RACKET-TAILED DRONGO <i>Dicrurus paradiseus</i>	T	250-450	6
BLACK-NAPED MONARCH <i>Hypothymis azurea</i>	T	250-450	6
COMMON IORA <i>Aegintha tiphia</i>	T	350-400	6
LARGE WOODSHRIKE <i>Tephrodornis guttatis</i>	T	250-380	6,20
BROWN DIPPER <i>Ginclis pallasi</i>	TR	380-3150	2,3,6,14,21,25,

BLUE-CAPPED ROCK-THRUSH <i>Monticola cinclorhynchus</i>	TU	715-2200	30 13,15,16,25,27, 32
CHESTNUT-BELLIED ROCK-THRUSH <i>Monticola rufiventris</i>	B	2930	18
BLUE ROCK-THRUSH <i>Monticola solitarius</i>			32
BLUE WHISTLING-THRUSH <i>Myiophonus caeruleus</i>	TUBXR	250-3235	u
ORANGE-HEADED THRUSH <i>Zoothera citrina</i>	TU	510-1220	6,8,27
PLAIN-BACKED THRUSH <i>Zoothera mollissima</i>	B	2600	3
LONG-TAILED THRUSH <i>Zoothera dixonii</i>	X	2600	3
WHITE-COLLARED BLACKBIRD <i>Turdus albocinctus</i>	BXCF	2375-3330	2,3,18-21,30, 31,33
GREY-WINGED BLACKBIRD <i>Turdus boulboul</i>	B	1900-2440	4,16,23
EYEBROWED THRUSH <i>Turdus obscurus</i>	U	1220	27
DARK-THROATED THRUSH <i>Turdus ruficollis</i>	C	2550	2
LESSER SHORTWING <i>Brachypteryx leucophrys</i>	SBX	1595-3150	9,20,21,31
WHITE-BROWED SHORTWING <i>Brachypteryx montana</i>	X	3280-3620	21
DARK-SIDED FLYCATCHER <i>Muscicapa sibirica</i>	TUBXC	250-3290	3,6,15,16, 18-22, 29-31
ASIAN BROWN FLYCATCHER <i>Muscicapa dauurica</i>	T	450	6
FERRUGINOUS FLYCATCHER <i>Muscicapa ferruginea</i>	UB	1650-2440	16,23,25
RUFIOUS-GORGETED FLYCATCHER <i>Ficedula strophilata</i>	BXC	2600-3365	2,3,18,20,21, 30,31,33
RED-BREASTED FLYCATCHER <i>Ficedula parva</i>	T	250-710	6,7
LITTLE PIED FLYCATCHER <i>Ficedula westermanni</i>	SU	1400-1650	11,25
ULTRAMARINE FLYCATCHER <i>Ficedula supercilii</i>	BX	2215-2785	17,20,30
SLATY-BLUE FLYCATCHER <i>Ficedula tricolor</i>	X	3010-3290	2,21,32,33
VERDITER FLYCATCHER <i>Bunyas thalassina</i>	TSUBF	710-2930	u
LARGE NILTAVA <i>Niltava grandis</i>	B	2430	23
SMALL NILTAVA <i>Niltava macgrigoriae</i>	TSU	755-1410	8,9,25
RUFIOUS-BELLIED NILTAVA <i>Niltava sundara</i>	BX	2410-2930	18,21,23,30
PALE-CHINNED FLYCATCHER <i>Cyornis poliogenys</i>	TU	400-1335	6,28,29
PALE BLUE-FLYCATCHER <i>Cyornis unicolor</i>	SU	1320-1590	11,25-29
BLUE-THROATED FLYCATCHER <i>Cyornis rubiculoides</i>	TSU	350-1675	6,8,11-14,25, 27,29,30
GREY-HEADED FLYCATCHER <i>Culicicapa ceylonensis</i>	TSPUBX	420-2750	3,6,8,10,13,16, 23,25,29-31,33
INDIAN BLUE ROBIN <i>Luscinia brunnea</i>	[B]X	2725-3030	20,33
ORANGE-FLANKED BUSH-ROBIN <i>Tarsiger cyanurus</i>	X	2600-3420	3,33
GOLDEN BUSH-ROBIN <i>Tarsiger chrysaceus</i>	B	2600	3
WHITE-BROWED BUSH-ROBIN <i>Tarsiger indicus</i>	C	3430-3620	21
ORIENTAL MAGPIE-ROBIN <i>Copsychus saularis</i>	TSF	250-1400	u
WHITE-RUMPED SHAMA <i>Copsychus malabaricus</i>	T	250-450	6
HODGSON'S REDSTART <i>Phoenicurus hodgsoni</i>	C	2500-2600	2,4
BLUE-FRONTED REDSTART <i>Phoenicurus frontalis</i>	C	2500-2600	2,3
WHITE-CAPPED WATER-REDSTART <i>Chaimarrornis leucocephalus</i>	TR	250-3230	1-3,6,15-18
PLUMBEOUS WATER-REDSTART <i>Rhyacornis fuliginosus</i>	TSR	450-2720	1-3,6,8,15,18, 20,25,29,30,32
BLUE-FRONTED ROBIN <i>Cinclidium frontale</i>	X	3265	33
BLACK-BACKED FORKTAIL <i>Enicurus immaculatus</i>	TR	380	6
SLATY-BACKED FORKTAIL <i>Enicurus schistaceus</i>	TSUR	250-1295	6,8,14,29
SPOTTED FORKTAIL <i>Enicurus maculatus</i>	SUXR	1270-3125	12,16,22,28
SIBERIAN STONECHAT <i>Saxicola maura</i>	F	350-2500	2,5
GREY BUSHCHAT <i>Saxicola ferrea</i>	SF	1065-2820	1-3,8-12,16-18, 20,32,33
CHESTNUT-TAILED STARLING <i>Sturnus malabaricus</i>	SF	350-1320	5,11,12

ASIAN PIED STARLING <i>Sturnus contra</i>	F	350	5
COMMON MYNA <i>Acridotheres tristis</i>	TSF	250-2780	u
JUNGLE MYNA <i>Acridotheres fuscus</i>	F	350	5
HILL MYNA <i>Gracula religiosa</i>	T	250-450	6
CHESTNUT-BELLIED NUTHATCH <i>Sitta castanea</i>	TSU	250-1235	6-8,11,13,14, 25,27
WHITE-TAILED NUTHATCH <i>Sitta himalayensis</i>	SUBX	1650-2665	3,4,10,24,30,31
VELVET-FRONTED NUTHATCH <i>Sitta frontalis</i>	T	350	6
WALLCREEPER <i>Tichodroma muraria</i>	R	2600	3
EURASIAN TREE-CREEPER <i>Corithia familiaris</i>	X	3155-3430	21,33
RUSTY-FLANKED TREE-CREEPER <i>Certhia nipalensis</i>	X	3230-3420	21,33
BROWN-THROATED TREE-CREEPER <i>Certhia discolor</i>	S	1550	11
RUFIOUS-VENTED TIT <i>Parus rubidiventris</i>	XC	3175-3630	18,21
COAL TIT <i>Parus ater</i>	XC	3290-3385	21
GREY-CRESTED TIT <i>Parus dichrous</i>	XC	3175-3630	21,33
GREEN-BACKED TIT <i>Parus monticolus</i>	SUBXC	1100-3155	u
YELLOW-CHEEKED TIT <i>Parus spilonotus</i>	U	1310	29
YELLOW-BROWED TIT <i>Sylvioparus modestus</i>	BX	2085-3290	22,30,31
SULTAN TIT <i>Melanochlora sultanea</i>	T	450-890	6,7,13
BLACK-THROATED TIT <i>Aegithalos concinnus</i>	SU	1320-1650	11,24,26
BLACK-BROWED TIT <i>Aegithalos iouschistos</i>	BX	2600-3330	3,20,21,31,33
PLAIN MARTIN <i>Riparia paludicola</i>	R	1050	25
BARN SWALLOW <i>Hirundo rustica</i>	TS	250-1400	6,9
RED-RUMPED SWALLOW <i>Hirundo daurica</i>		350,2250	1,5
ASIAN HOUSE-MARTIN <i>Delichon dasypus</i>	TS	400-3265	2,3,6,7,9,18, 29,30,33
NEPAL HOUSE-MARTIN <i>Delichon nipalensis</i>		1280-2195	16,18,24,29
GOLDCREST <i>Regulus regulus</i>	BX	2810-3270	21,31,33
STRIATED BULBUL <i>Pycnonotus striatus</i>	SB	1750-2440	10,16,23
BLACK-CRESTED BULBUL <i>Pycnonotus melanicterus</i>	TU	250-1125	6,25
RED-WHISKERED BULBUL <i>Pycnonotus jocosus</i>	T	250-710	6,7
RED-VENTED BULBUL <i>Pycnonotus cafer</i>	TSF	250-2200	u
WHITE-THROATED BULBUL <i>Alphoixus flavoolus</i>	T	250-940	6-8,13
ASHY BULBUL <i>Hemixos flavala</i>	T	380-895	6,13
MOUNTAIN BULBUL <i>Hypsipetes maclellandii</i>	TU	940-1360	13,25,28,29
BLACK BULBUL <i>Hypsipetes leucocephalus</i>	TSU[X]F	250-2600	u
STRIATED PRINIA <i>Prinia criniger</i>	TSHF	715-2200	8,9,13,16,25-29
HILL PRINIA <i>Prinia atrogularis</i>		1900	16
GREY-CROWNED PRINIA <i>Prinia cinereocapilla</i>	TF	700-1300	14,27,29
RUFESCENT PRINIA <i>Prinia rufescens</i>	T	380	6
GREY-BREASTED PRINIA <i>Prinia hodgsonii</i>	T	350	6
ORIENTAL WHITE-EYE <i>Zosterops palpebrosus</i>	TSUF	250-1300	6,7,12-15,24, 25,29
CHESTNUT-HEADED TESIA <i>Tesia castaneocoronata</i>	PBX	2100-3280	10,20-22,30,31, 33
SLATY-BELLIED TESIA <i>Tesia olivacea</i>	S	1415-1660	9,10
GREY-BELLIED TESIA <i>Tesia cyaniventer</i>	B	2380	30
BROWNISH-FLANKED BUSH-WARBLER <i>Cettia forripes</i>	SF	1395-2200	8-11,16
ABERRANT BUSH-WARBLER <i>Cettia flavolivacea</i>	B	2200	16
YELLOWISH-BELLIED BUSH-WARBLER <i>Cettia acanthizoides</i>	BX	2770-3150	21,22,32
GREY-SIDED BUSH-WARBLER <i>Cettia brunifrons</i>	S[B][X]F	1065-3300	1-3,10,11,18, 21,33
BLYTH'S REED-WARBLER <i>Aerocephalus dumetorum</i>	TSF	380-1460	5-7,9,11
MOUNTAIN TAILORBIRD <i>Orthotomus cuculatus</i>	S	1910	10
COMMON TAILORBIRD <i>Orthotomus sitorius</i>	TSF	250-1065	5-8,11,13,14
TICKELL'S LEAF-WARBLER <i>Phylloscopus affinis</i>	S[B]F	1320-2930	2,10,11,18

BUFF-BARRED WARBLER <i>Phylloscopus pulcher</i>	C	2400-3395	3,7,21
ASHY-THROATED WARBLER <i>Phylloscopus maculipennis</i>	BXC	2000-3530	16,21,30,31,33
LEMON-RUMPED WARBLER <i>Phylloscopus chloronotus</i>	X	2600-3080	3,20,21,31,33
YELLOW-BROWED (INORNATE) WARBLER <i>Phylloscopus inornatus</i>	TB[X]C	380,2500-3630	2,6,21,31,33
GREENISH WARBLER <i>Phylloscopus trochiloides</i>	T	250-2000	6,16
LARGE-BILLED LEAF-WARBLER <i>Phylloscopus magnirostris</i>	TBX	380-755,2400-3505	6,8,16,17,20,21,23,30,31,33
BLYTH'S LEAF-WARBLER <i>Phylloscopus reguloides</i>	BX	2200-3300	u
YELLOW-VENTED WARBLER <i>Phylloscopus cantator</i>	TSU	300-1540	6-9,11-13,25,26,28,29
GOLDEN-SPECTACLED WARBLER <i>Seiurus burkii</i>	BXC	2200-3575	3,16,20-22,30,31,33
GREY-HOODED WARBLER <i>Seiurus xanthoschistus</i>	TSU	510-1700	4,6-10,13,24,25,29,30
WHITE-SPECTACLED WARBLER <i>Seiurus affinis</i>	P	2000	10
CHESTNUT-CROWNED WARBLER <i>Seiurus castaneiceps</i>	SB	1510-2600	3,11,16,30
RUFOUS-FACED WARBLER <i>Abroscopus albogularis</i>	T	755-935	8,13
BLACK-FACED WARBLER <i>Abroscopus schisticeps</i>	P	2355	10
YELLOW-BELLIED WARBLER <i>Abroscopus superciliosus</i>	T	935	13
WHITE-THROATED LAUGHINGTHRUSH <i>Garrulax albogularis</i>	UBXC	1270-3260	2,3,16,20,21,23,25,30,31,33
WHITE-CRESTED LAUGHINGTHRUSH <i>Garrulax leucolophus</i>	TSU	380-1565	6-13,25-29
LESSER NECKLACED LAUGHINGTHRUSH <i>Garrulax monileger</i>	T	620-795	7,13
STRIATED LAUGHINGTHRUSH <i>Garrulax striatus</i>	TSUB	620-3060	7-11,16,18,23,25,27,30,31
RUFOUS-NECKED LAUGHINGTHRUSH <i>Garrulax ruficollis</i>	TS	735-1525	10,11,13
RUFOUS-CHINNED LAUGHINGTHRUSH <i>Garrulax rufogularis</i>	T	860	13
SPOTTED LAUGHINGTHRUSH <i>Garrulax ocellatus</i>	[B]X	2845-3155	3,22,33
STREAKED LAUGHINGTHRUSH <i>Garrulax lineatus</i>	B	2200	16
SCALY LAUGHINGTHRUSH <i>Garrulax subunicolor</i>	X	3125	21
BLACK-FACED LAUGHINGTHRUSH <i>Garrulax affinis</i>	XC	2675-3395	18,20-22
CHESTNUT-CROWNED LAUGHINGTHRUSH <i>Garrulax erythrocephalus</i>	BX	1200, 2200-3330	3,4,16,21,31,33
RED-FACED LIOCICHLA <i>Liocichla phoenicea</i>	S	1285-1695	9,10
RUSTY-CHEEKED SCIMITAR-BABBLER <i>Pomatorhinus erythrogenys</i>	TSUF	650-1400	8-13,27
WHITE-BROWED SCIMITAR-BABBLER <i>Pomatorhinus schisticeps</i>	TS	400-1590	6,10,13
STREAK-BREASTED SCIMITAR-BABBLER <i>Pomatorhinus ruficollis</i>	B	2200-2675	16,31
CORAL-BILLED SCIMITAR-BABBLER <i>Pomatorhinus ferruginosus</i>	S	1440-1590	9,10
PYGMY WREN-BABBLER <i>Pnoepygus pusilla</i>	TSB	510-1450, 2420-2435	6,8,23,30,31
RUFOUS-THROATED WREN-BABBLER <i>Spelaeorhis caudatus</i>	U	1630	30
SPOTTED WREN-BABBLER <i>Spelaeorhis formosus</i>	T	770	13
RUFOUS-CAPPED BABBLER <i>Stachyris ruficeps</i>	X	2000-2890	16,22,31
GOLDEN BABBLER <i>Stachyris chrysaea</i>	TS	510-1400	6-10,13
GREY-THROATED BABBLER <i>Stachyris nigriceps</i>	TS	300-1010	6,12,13
STRIPED TIT-BABBLER <i>Macronous gularis</i>	T	250-450	6
JUNGLE BABBLER <i>Turdoides striatus</i>	T	380	6
SILVER-EARED MESIA <i>Leiothrix argenteauris</i>	TS	510-1400	6-10
RED-BILLED LEIOTHRIX <i>Leiothrix lutea</i>	BX	2200-2720	16,20,23,30
CUTIA <i>Cutia nipalensis</i>	S	1545-1550	9,11
WHITE-BROWED SHRIKE-BABBLER <i>Pteruthius flaviscapis</i>	U	1365	25
WHITE-HOODED BABBLER <i>Gampsorhynchus rufus</i>	T	915	13
RUSTY-FRONTED BARWING <i>Actinodura egertoni</i>	S	1735-1845	10
HOARY-THROATED BARWING <i>Actinodura nipalensis</i>	BX	2440-3290	21-23
BLUE-WINGED MINLA <i>Minla cyanouroptera</i>	SPB	1425-2440	10,23,30

CHESTNUT-TAILED MINLA <i>Minla strigula</i>	BX	2000-3175	16,21,22,31
RED-TAILED MINLA <i>Minla ignotincta</i>	BX	2420-3175	20,21,30,31
GOLDEN-BREASTED FULVETTA <i>Alcippe chrysois</i>	BX	2435-2750	30,31
YELLOW-THROATED FULVETTA <i>Alcippe cinerea</i>	S	1595	9
RUFOUS-WINGED FULVETTA <i>Alcippe castaneiceps</i>	PB	2100-2600	3,10,23,30
WHITE-BROWED FULVETTA <i>Alcippe vinipectus</i>	BX	2460-3300	18,21,22,30,31
NEPAL FULVETTA <i>Alcippe nipalensis</i>	TSU	420-1800	6-8,11,13,25,26,29
RUFOUS SIBIA <i>Heterophasia capistrata</i>	SPUBX	1040-2930	u
LONG-TAILED SIBIA <i>Heterophasia picaoides</i>	TS	540-1070	6-8,11
STRIATED YUHINA <i>Yuhina castaneiceps</i>	TSU	510-1590	7,8,10,13,25
WHITE-NAPED YUHINA <i>Yuhina bakeri</i>	T	550-740	6-8
WHISKERED YUHINA <i>Yuhina flavicollis</i>	SPBX	1590-2750	10,16,23,31
STRIPE-THROATED YUHINA <i>Yuhina gularis</i>	UBX	1255, 2200-3280	3,18,20-22,25,30,31,33
RUFOUS-VENTED YUHINA <i>Yuhina occipitalis</i>	XC	2775-3630	21,31,33
BLACK-CHINNED YUHINA <i>Yuhina nigrimenta</i>	TSU	300-1650	6-9,11-13,24,25,28-30
WHITE-BELLIED YUHINA <i>Yuhina zantholeuca</i>	TU	890-1335	13,27,28
GREY-HEADED PARROTBILL <i>Paradoxornis gularis</i>	P	2010	10
BLACK-THROATED PARROTBILL <i>Paradoxornis nipalensis</i>	PB	2010-2810	10,31
LESSER RUFOUS-HEADED PARROTBILL <i>Paradoxornis aurasuperciliaris</i>	T	710-915	7,13
SAND LARK <i>Calandrella raytal</i>	R	350	5
ORIENTAL SKYLARK <i>Alauda gulgula</i>	F	2780-2870	19-21,31
PLAIN FLOWERPECKER <i>Dicaeum concolor</i>	TSU	250-1650	6,11,13,24-26,29,30
FIRE-BREASTED FLOWERPECKER <i>Dicaeum ignipectus</i>	SUB	1110-2360 [-2600]	3,4,8,12,16,28-30
RUBY-CHEEKED SUNBIRD <i>Anthreptes singalensis</i>	T	400	6
MRS GOULD'S SUNBIRD <i>Aethopyga gouldiae</i>	B[X]	2000-2440 [-3230]	3,16,17,33
GREEN-TAILED SUNBIRD <i>Aethopyga nipalensis</i>	PBX	2115-3165	3,10,18,20,21,23,30,31,33
BLACK-THROATED SUNBIRD <i>Aethopyga saturata</i>	TSU	510-1520	6-12,25,29,30
CRIMSON SUNBIRD <i>Aethopyga siparaja</i>	T	250-800	6,13
STREAKED SPIDERHUNTER <i>Arachnothera magna</i>	TSU	300-1440	6-9,12,13,25
HOUSE SPARROW <i>Passer domesticus</i>	F	350	5
RUSSET SPARROW <i>Passer rutilans</i>	SCF	1100-2930	2,3,8,16,18,19,29,32
EURASIAN TREE SPARROW <i>Passer montanus</i>	TSF	350-2500	u
WHITE WAGTAIL <i>Motacilla alba</i>	R,F	350-2500	2,5
WHITE-BROWED WAGTAIL <i>Motacilla maderaspatensis</i>	TR	250-350	5,6
CITRINE WAGTAIL <i>Motacilla citreola</i>	R	350	5
GREY WAGTAIL <i>Motacilla cinerea</i>	TR	300-1600	5-7,15
PADDYFIELD PIPIT <i>Anthus rufulus</i>	TSF	380-1065	12
OLIVE-BACKED PIPIT <i>Anthus hodgsoni</i>	TSBFX	250-3000	u
ROSY PIPIT <i>Anthus roseatus</i>	RF	2400-2600	2,3
RUFOUS-BREASTED ACCENTOR <i>Prunella strophlata</i>	CF	2500-2600	2,3,17
WHITE-RUMPED MUNIA <i>Lonchura striata</i>	TF	710-1445	7,13,25
TIBETAN SERIN <i>Serinus tibetanus</i>	X	3290	22
YELLOW-BREASTED GREENFINCH <i>Carduelis spinoides</i>	SF	1275-1525	8,10,12,19,33
PLAIN MOUNTAIN-FINCH <i>Leucosticte nemoricola</i>	F	2000-2800	2,3,16,20
COMMON ROSEFINCH <i>Carpodacus erythrinus</i>	TSF	380-1525	6,8,10,11,25,29
SCARLET FINCH <i>Haematospiza sipahi</i>	U[B]	1280, 2700, 3180	3,29,32
RED CROSSBILL <i>Loxia curvirostra</i>	X	2550-3290	3,22

RED-HEADED BULLFINCH <i>Pyrrhula erythrocephala</i>	X	3080-3290	21,22
WHITE-WINGED GROSBEAK <i>Mycerobas carnipes</i>	XC	2665-3620	21,31,33
GOLD-NAPED FINCH <i>Pyrrhoptectes epauletta</i>	X	3280-3385	21
CRESTED BUNTING <i>Melophus lathami</i>	TSF	650-1445	11,12,14-16, 25,27,29,32
LITTLE BUNTING <i>Emberiza pusilla</i>	SF	1320-2550	2,11
BLACK-FACED BUNTING <i>Emberiza spodocephala</i>	SF	1400	11

## Key

## 1st trek

T = Tropical zone

S = Subtropical zone

P = Temperate zone broadleaved forest

## 2nd trek

U = Subtropical zone broadleaved forest

B = Temperate zone broadleaved forest

X = Temperate zone mixed forest

C = Temperate zone coniferous forest

H = Subtropical zone Chir Pine forest

## Both treks

F = Fields, grazing areas and around human habitation

R = Rivers and lakes

## Locations:

- 1 Paro (2,250 m) - Thimphu (2,400 m)
- 2 Thimphu valley (2,400 m)
- 3 Tseri (2,590 m - 2,600 m)
- 4 Thimphu (2,400 m) - Phuntsholing (350 m)
- 5 Phuntsholing (350 m)
- 6 Royal Manas National Park (250 m - 550 m)
- 7 Manas (550 m) - Dalim (710 m)
- 8 Dalim (710 m) - Tshobrang (1,395 m)
- 9 Tshobrang (1,395 m) - 1,615 m - Ponchela (1,400 m)
- 10 Ponchela (1,400 m) - 2,390 m - Subrang (1,400 m)
- 11 Subrang (1,400 m) - 1,525 m - Zurphey (1,320 m)
- 12 Zurphey (1,320 m) - Tshanglajong (1,065 m)
- 13 Tshanglajong (1,065 m) - Tingtibi (650 m)
- 14 Tingtibi (650 m - 810 m)
- 15 Tingtibi (650 m) - Tongsa (2,200 m)
- 16 Tongsa (2,200 m)
- 17 Chendibiji (2,400 m)
- 18 Pele La (2,930 m - 3,210 m)
- 19 Phobjikha valley (2,780 m - 2,870 m)
- 20 Phobjikha (2,780 m) - Khebatang (2,800 m)
- 21 Khebatang (2,800 m) - Gele La (3,630 m) - Laphu Gang (3,100 m)
- 22 Laphu Gang (3,100 m) - Pema La (3,290 m) - Nehi (2,440 m)
- 23 Nehi (2,440 m)
- 24 Nehi (2,440 m) - Harachhu (1,125 m)
- 25 Harachhu (1,125 m - 1,445 m)
- 26 Harachhu (1,125 m) - 1,695 m - Nashina (1,220 m)
- 27 Nashina (1,220 m)
- 28 Nashina (1,220 m) - 1,435 m - Ada (1,280 m)
- 29 Ada (1,280 m)
- 30 Ada (1,280 m) - Tarana (2,430 m)
- 31 Tarana (2,430 m) - Phobjikha (2,780 m)
- 32 Phobjikha (2,780 m) - Thimphu (2,400 m)
- 33 Tashigong monastery/Dochu La (2,840 m - 3,530 m)

## The birds of Pakistan: supplementary observations from the northern Punjab and hills

A. VITTERY

I was resident in Lahore from May 1973 to early June 1974. Some of my observations in the first part of this period were included by T. J. Roberts in *The birds of Pakistan* (1991 and 1992) but other data appear never to have reached him. The following accounts are limited to those species where my records add materially to the status described by Roberts. These include an addition to the Pakistan list: Richard's Pipit *Anthus richardi*; one probable addition: Blyth's Pipit *A. godlewskii*; three revised first records for Pakistan: Pied Harrier *Circus melanoleucos*, Brown Crake *Amauormis akool* and Mew Gull *Larus canus*; four first inland occurrences of migratory waders and the first inland and autumn records of White-winged Tern *Chlidonias leucopterus*. ALPINE SWIFT *Tachymarptis melba* In 1973 a total of 14 flew north/north-east over Lahore on 24 July, one flew south-west at Balloki, 64 km south-west of Lahore on 26 July, and two flew north over Lahore on 28 August.

PALE-BACKED PIGEON *Columba eversmanni* Two flocks totalling 75 birds were seen in an arid area near Raiwind on 2 February 1974, and nine beside the Hudiara drain, south-west of Lahore, on 26 February 1974. It does not seem to have been recorded in the northern foothills but there were 10 near Rawal Lake, Islamabad, on 16/17 February 1974.

BROWN CRAKE *Amauormis akool* One was well seen at the Balloki headworks on 20 January 1974 and there were two there on 3 March 1974 (one of which caught and ate a mud-skipper). These predate the only record listed by Roberts.

RUDDY-BREASTED CRAKE *Porzana fusca* Seen at the Balloki headworks on six dates between 3 February and 26 May 1973, max. 6+ on 10 March. Considered rare to scarce by Roberts, who also saw one at Balloki, on 28 March 1981.

BLACK-TAILED GODWIT *Limosa limosa* According to Roberts, 'seldom encountered' in the Punjab. There were two at Kharrar jheel, near Renala Khurd, on 21 July 1973, two on 7 October 1973 and one on 19 May 1974.

WHIMBREL *Numenius phaeopus* Roberts knew of no inland occurrences. There was one on the River Ravi at Niaz Beg, Lahore, on 27 September 1973 and two at Kharrar jheel on 7 October 1973. The call was heard on both occasions.