**Supplementary Material**

Conservation value of human–modified forests for birds in mountainous regions of south-west China

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Appendix S1. Number of bird individuals recorded in four habitats by point counts and mist nets in the Ailao Mountains of Yunnan.

Appendix S1. Number of bird individuals recorded in four habitats by point counts and mist nets in the Ailao Mountains of Yunnan.

| Species | Guild\* | | Point counts† | | | | Mist nets | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SF | FD | PP | PF | SF | FD | PP | PF |
| Oriental Turtle Dove *Streptopelia orientalis* |  |  | 2 |  |  |  |  |  |  |  |
| Eurasian Cuckoo *Cuculus canorus* | I |  |  | 6 | 2 |  |  |  |  |  |
| Indian Cuckoo *Cuculus micropterus* | I |  |  |  | 2 | 1 |  |  |  |  |
| Green-billed Malkoha *Phaenicophaeus tristis* | I | F |  |  |  |  | 1 |  |  |  |
| Common Kingfisher *Alcedo atthis* |  |  | 2 |  |  |  |  |  |  |  |
| Blue-bearded Bee-eater *Nyctyornis athertoni* | I | F | 4 |  |  |  |  |  |  |  |
| Common Hoopoe *Upupa epops* | I |  | 1 |  |  |  |  |  |  |  |
| Great Barbet *Megalaima virens* |  | F |  | 3 |  | 1 |  |  |  |  |
| Blue-throated Barbet *Megalaima asiatica* |  | F | 3 |  |  |  | 3 |  |  |  |
| Speckled Piculet *Picumnus innominatus* | I | F |  |  |  |  |  |  |  | 1 |
| Great Spotted Woodpecker *Dendrocopos major* | I | F | 2 |  |  |  |  |  |  |  |
| Crimson-breasted Woodpecker *Dendrocopos cathpharius* | I | F |  | 1 |  |  |  |  |  |  |
| Rufous-bellied Woodpecker *Dendrocopos hyperythrus* | I | F |  |  |  | 2 |  |  |  |  |
| Darjeeling Woodpecker *Dendrocopos darjellensis* | I | F |  |  |  | 2 |  |  |  |  |
| Grey-capped Pygmy Woodpecker *Dendrocopos canicapillus* | I |  |  |  |  |  | 1 |  |  |  |
| Barn Swallow *Hirundo rustica* | I |  |  | 1 |  |  |  |  |  |  |
| White Wagtail *Motacilla alba* | I |  | 6 |  | 2 | 2 |  |  |  |  |
| Grey Wagtail *Motacilla cinerea* | I |  | 2 |  |  |  |  |  |  |  |
| Olive-backed Pipit *Anthus hodgsoni* |  |  |  | 1 | 4 | 3 | 1 | 3 | 2 |  |
| Rosy Pipit *Anthus roseatus* | I |  |  |  |  |  |  |  | 1 |  |
| Red-throated Pipit *Anthus cervinus* | I |  |  |  | 2 |  |  | 1 |  |  |
| Bar-winged Flycatcher-shrike *Hemipus picatus* | I |  | 4 |  |  |  |  |  |  |  |
| Long-tailed Minivet *Pericrocotus ethologus* | I | F | 11 |  |  | 10 | 4 |  |  |  |
| Scarlet Minivet *Pericrocotus flammeus* | I | F | 66 |  |  |  | 4 |  |  |  |
| Short-billed Minivet *Pericrocotus brevirostris* | I |  |  | 10 |  | 2 | 1 |  |  |  |
| Grey-chinned Minivet *Pericrocotus solaris* | I | F | 5 |  |  |  |  |  |  |  |
| Crested Finchbill *Spizixos canifrons* |  |  |  | 7 | 14 |  |  |  |  |  |
| Sooty-headed Bulbul *Pycnonotus aurigaster* |  |  | 46 | 5 |  |  | 1 |  |  |  |
| Brown-breasted Bulbul *Pycnonotus xanthorrhous* |  |  | 12 | 80 | 6 |  | 6 | 26 | 1 |  |
| Black-crested Bulbul *Pycnonotus melanicterus* |  |  | 10 |  |  |  | 8 |  |  |  |
| Mountain Bulbul *Ixos mcclellandii* |  | F | 1 | 3 | 9 |  |  |  | 1 |  |
| Black Bulbul *Hypsipetes leucocephalus* |  | F | 82 |  |  |  |  |  | 1 |  |
| Long-tailed Shrike *Lanius schach* | I |  | 5 | 1 |  |  |  | 1 |  |  |
| Black-naped Oriole *Oriolus chinensis* | I |  | 2 |  |  |  |  |  |  |  |
| Ashy Drongo *Dicrurus leucophaeus* | I |  | 12 | 5 |  |  | 1 |  | 1 |  |
| Spotted Nutcracker *Nucifraga caryocatactes* |  | F |  |  | 21 | 8 |  |  |  |  |
| Grey Treepie *Dendrocitta formosae* |  |  |  | 1 |  |  |  |  |  |  |
| Red-billed Blue Magpie *Urocissa erythrorhyncha* |  |  |  | 12 | 18 |  |  |  | 1 |  |
| Brown Dipper *Cinclus pallasii* | I |  | 3 |  |  |  |  |  |  |  |
| Winter Wren *Troglodytes troglodytes* | I |  |  |  |  | 1 |  |  |  |  |
| Maroon-backed Accentor *Prunella immaculata* |  |  |  |  |  |  |  | 7 | 1 | 7 |
| Rufous-breasted Accentor *Prunella strophiata* |  |  |  | 2 | 1 |  |  | 1 |  |  |
| White-bellied Redstart *Hodgsonius phaenicuroides* | I |  |  |  |  |  |  |  |  | 1 |
| White-browed Shortwing *Brachypteryx montana* | I | F |  |  |  | 2 |  |  |  | 2 |
| Oriental Magpie Robin *Copsychus saularis* | I |  | 3 |  |  |  |  |  |  |  |
| Siberian Rubythroat *Luscinia calliope* | I |  | 1 |  |  |  |  | 1 |  |  |
| Siberian Blue Robin *Luscinia cyane* | I |  |  |  |  |  | 1 |  |  |  |
| White-browed Bush Robin *Tarsiger indicus* | I | F |  |  |  |  |  |  |  | 6 |
| Golden Bush Robin *Tarsiger chrysaeus* |  |  |  |  | 2 |  |  | 2 | 2 |  |
| Orange-flanked Bush Robin *Tarsiger cyanurus* | I |  |  | 3 | 13 | 2 |  | 15 | 54 | 16 |
| Daurian Redstart *Phoenicurus auroreus* |  |  |  | 3 | 3 |  | 6 | 1 |  |  |
| Blue-fronted Redstart *Phoenicurus frontalis* |  |  |  | 4 | 17 | 4 |  | 1 | 3 | 2 |
| White-capped Water Redstart *Chaimarrornis leucocephalus* | I |  | 12 | 2 |  | 1 |  |  |  |  |
| Plumbeous Water Redstart *Rhyacornis fuliginosus* |  |  | 5 | 1 |  | 1 |  |  |  |  |
| White-tailed Robin *Myiomela leucura* | I | F |  |  |  |  | 1 | 1 |  |  |
| White-crowned Forktail *Enicurus leschenaulti* | I |  | 1 |  |  | 1 |  |  | 1 | 2 |
| Spotted Forktail *Enicurus maculatus* | I |  |  |  |  | 1 |  |  |  | 1 |
| Slaty-backed Forktail *Enicurus schistaceus* | I |  | 7 |  |  | 1 |  |  |  |  |
| Grey Bushchat *Saxicola ferrea* | I |  | 6 | 6 |  |  |  | 1 |  |  |
| Blue Rock Thrush *Monticola solitarius* | I |  | 3 |  |  |  |  |  |  |  |
| Chestnut-bellied Rock Thrush *Monticola rufiventris* | I | F |  | 1 |  | 1 |  |  |  |  |
| Blue Rock Thrush *Monticola solitarius* | I |  | 6 |  |  | 1 |  |  |  |  |
| Siberian Thrush *Zoothera sibirica* |  | F |  |  |  |  |  |  |  | 1 |
| Long-tailed Thrush *Zoothera dixoni* |  | F |  |  |  |  |  |  | 3 |  |
| Plain-backed Thrush *Zoothera mollissima* | I | F |  |  |  |  |  | 1 |  |  |
| Scaly Thrush *Zoothera dauma* | I | F |  |  |  |  |  |  | 1 | 1 |
| Black-breasted Thrush *Turdus dissimilis* |  |  |  |  |  |  |  |  | 1 |  |
| Chestnut Thrush *Turdus rubrocanus* |  | F |  |  | 1 |  |  |  |  |  |
| Spot-breasted Scimitar Babbler *Pomatorhinus erythrocnemis* |  |  | 8 | 8 | 5 |  | 8 | 4 |  |  |
| Streak-breasted Scimitar Babbler *Pomatorhinus ruficollis* |  |  | 6 | 4 | 5 |  | 8 | 4 | 3 |  |
| Slender-billed Scimitar Babbler *Xiphirhynchus superciliaris* | I | F |  |  |  |  |  |  |  | 2 |
| Bar-winged Wren Babbler *Spelaeornis troglodytoides* | I | F |  |  |  | 8 |  |  |  | 1 |
| Grey-throated Babbler *Stachyris nigriceps* | I | F |  |  |  |  | 3 |  |  |  |
| Rufous-capped Babbler *Stachyris ruficeps* | I |  |  | 29 | 11 | 5 |  | 35 | 7 | 10 |
| Chinese Babax *Babax lanceolatus* |  |  |  | 2 | 7 |  |  |  | 1 |  |
| Hwamei *Garrulax canorus* |  |  | 8 |  |  |  | 1 |  |  |  |
| White-browed Laughingthrush *Garrulax sannio* |  |  | 40 | 3 |  |  |  | 1 |  |  |
| Elliot's Laughingthrush *Garrulax elliotii* |  |  |  |  |  | 6 |  |  |  |  |
| Black-faced Laughingthrush *Garrulax affinis* |  | F |  |  |  | 12 |  |  |  | 1 |
| Greater Necklaced Laughingthrush *Garrulax pectoralis* |  | F | 6 |  |  |  | 1 |  |  |  |
| Lesser Necklaced Laughingthrush *Garrulax monileger* | I | F | 5 |  |  |  |  |  |  |  |
| Chestnut-crowned Laughingthrush *Garrulax erythrocephalus* |  | F |  | 2 | 7 | 17 |  |  | 1 | 2 |
| Moustached Laughingthrush *Garrulax cineraceus* |  | F |  |  |  |  |  |  | 1 |  |
| Red-billed Leiothrix *Leiothrix lutea* |  |  |  |  | 1 |  |  |  |  | 1 |
| Silver-eared Mesia *Leiothrix argentauris* |  |  | 9 |  |  |  | 24 |  |  |  |
| Green Shrike-babbler *Pteruthius xanthochlorus* | I | F |  |  |  | 2 |  |  | 2 | 1 |
| White-browed Shrike-babbler *Pteruthius flaviscapis* | I | F | 3 |  |  |  |  |  |  |  |
| Chestnut-fronted Shrike-babbler *Pteruthius aenobarbus* | I | F |  |  |  | 1 |  |  |  |  |
| Black-headed Shrike-babbler *Pteruthius rufiventer* | I | F |  |  |  |  |  |  |  | 2 |
| Spectacled Barwing *Actinodura ramsayi* | I |  |  | 1 |  |  |  |  |  |  |
| Streaked Barwing *Actinodura souliei* | I | F |  |  |  | 6 |  |  |  | 2 |
| Chestnut-tailed Minla *Minla strigula* |  | F |  | 30 | 35 | 40 |  | 23 | 15 | 17 |
| Red-tailed Minla *Minla ignotincta* | I |  |  | 2 | 2 | 9 |  |  | 4 |  |
| Blue-winged Minla *Minla cyanouroptera* |  |  | 34 | 15 | 2 |  | 15 | 12 |  |  |
| White-browed Fulvetta *Alcippe vinipectus* | I |  |  |  | 23 | 22 |  |  | 31 | 47 |
| Spectacled Fulvetta *Alcippe ruficapilla* | I |  |  | 28 | 23 |  |  | 44 | 32 |  |
| Streak-throated Fulvetta *Alcippe cinereiceps* | I |  |  | 10 | 35 | 49 |  | 9 | 65 | 83 |
| Rusty-capped Fulvetta *Alcippe dubia* | I |  |  | 30 | 51 | 2 |  | 15 | 45 |  |
| Grey-cheeked Fulvetta *Alcippe morrisonia* |  |  | 13 |  | 10 | 11 | 17 | 2 |  | 3 |
| Golden-breasted Fulvetta *Alcippe chrysotis* | I | F |  |  |  | 19 |  |  | 2 | 28 |
| Rufous-winged Fulvetta *Alcippe castaneceps* | I | F |  |  |  | 16 |  |  |  | 66 |
| Black-headed Sibia *Heterophasia melanoleuca* |  | F |  | 4 |  | 5 |  |  | 1 |  |
| White-bellied Yuhina *Yuhina zantholeuca* | I |  |  |  |  |  | 4 |  |  |  |
| White-collared Yuhina *Yuhina diademata* |  |  |  | 2 | 216 | 7 |  |  | 16 | 3 |
| Whiskered Yuhina *Yuhina flavicollis* |  |  |  | 22 |  | 3 |  | 5 |  |  |
| Striated Yuhina *Yuhina castaniceps* |  |  | 25 |  |  |  | 40 |  |  |  |
| Stripe-throated Yuhina *Yuhina gularis* |  |  |  | 11 |  | 158 |  |  |  | 29 |
| Rufous-vented Yuhina *Yuhina occipitalis* |  |  |  |  | 34 | 102 |  |  |  | 19 |
| Brown-winged Parrotbill *Paradoxornis brunneus* | I |  |  |  |  |  |  | 7 |  |  |
| Black-throated Parrotbill *Paradoxornis nipalensis* |  |  |  |  |  | 2 |  |  | 10 | 1 |
| Spot-breasted Parrotbill *Paradoxornis guttaticollis* | I |  |  | 1 |  |  |  | 5 |  |  |
| Brown Parrotbill *Paradoxornis unicolor* |  | F |  |  |  | 5 |  |  |  | 8 |
| Chestnut-headed Tesia *Tesia castaneocoronata* | I | F |  | 3 |  |  |  | 1 |  | 8 |
| Asian Stubtail *Urosphena squameiceps* | I | F |  |  |  |  | 1 |  |  |  |
| Grey-sided Bush Warbler *Cettia brunnifrons* | I |  | 1 | 2 | 2 | 1 |  | 1 |  |  |
| Chestnut-crowned Bush Warbler *Cettia major* | I |  |  |  |  | 1 |  |  |  |  |
| Brownish-flanked Bush Warbler *Cettia fortipes* | I |  | 4 |  |  | 1 | 1 | 4 |  | 2 |
| Japanese Bush Warbler *Cettia diphone* | I |  |  |  |  |  |  | 1 |  |  |
| Yellowish-bellied Bush Warbler *Cettia acanthizoides* | I |  |  |  |  |  | 1 |  |  | 4 |
| Brown Bush Warbler *Bradypterus luteoventris* | I |  |  |  |  |  | 1 |  |  |  |
| White-tailed Leaf Warbler *Phylloscopus davisoni* | I | F | 1 | 15 | 20 |  |  | 5 | 2 |  |
| Blyth's Leaf Warbler *Phylloscopus reguloides* | I | F | 5 | 18 | 16 | 25 | 2 | 10 | 10 | 10 |
| Buff-barred Warbler *Phylloscopus pulcher* | I | F |  | 30 | 24 | 19 |  | 54 | 46 | 31 |
| Tickell's Leaf Warbler *Phylloscopus affinis* | I |  |  |  |  |  | 1 |  |  |  |
| Yellow-browed Warbler *Phylloscopus inornatus* | I |  | 15 | 4 | 11 | 11 | 5 | 2 | 25 | 2 |
| Pallas's Leaf Warbler *Phylloscopus proregulus* | I |  | 35 | 12 | 24 | 3 | 11 | 6 | 28 | 4 |
| Ashy-throated Warbler *Phylloscopus maculipennis* | I | F |  | 3 | 1 | 23 |  | 1 |  | 15 |
| Eastern Crowned Warbler *Phylloscopus coronatus* | I | F | 1 |  | 3 |  |  |  |  |  |
| Large-billed Leaf Warbler *Phylloscopus magnirostris* | I | F |  | 1 |  |  |  |  |  |  |
| Buff-throated Warbler *Phylloscopus subaffinis* | I |  |  |  | 6 | 5 |  | 1 | 1 | 1 |
| Yellow-streaked Warbler *Phylloscopus armandii* | I |  |  | 1 |  |  | 2 |  |  |  |
| Goldcrest *Regulus regulus* | I | F |  |  | 2 | 1 |  |  | 1 |  |
| Black-faced Warbler *Abroscopus schisticeps* | I | F |  |  |  | 7 |  |  |  |  |
| Golden-spectacled Warbler *Seicercus burkii* | I | F | 7 | 11 | 12 | 18 | 9 | 6 | 23 | 30 |
| Chestnut-crowned Warbler *Seicercus castaniceps* | I | F |  | 1 |  |  |  |  |  |  |
| Broad-billed Warbler *Tickellia hodgsoni* | I | F |  |  |  |  |  | 1 |  | 4 |
| Common Tailorbird *Orthotomus sutorius* | I |  | 12 |  |  |  | 9 |  |  |  |
| Mountain Tailorbird *Orthotomus cuculatus* | I |  |  | 3 |  |  |  | 5 |  |  |
| Rufescent Prinia *Prinia rufescens* | I |  | 2 |  | 1 |  | 1 |  | 1 |  |
| Plain Prinia *Prinia inornata* | I |  | 6 |  |  |  |  |  |  |  |
| Hill Prinia *Prinia atrogularis* | I |  |  | 1 |  |  |  |  |  |  |
| Striated Prinia *Prinia criniger* | I |  |  |  |  |  | 1 |  |  |  |
| Rufous- gorgeted Flycatcher *Ficedula strophiata* | I | F | 1 | 5 |  | 2 | 1 | 6 |  | 14 |
| Slaty-blue Flycatcher *Ficedula tricolor* | I |  |  | 2 | 2 | 1 |  |  | 1 | 3 |
| Slaty-backed Flycatcher *Ficedulaii hodgsonii* | I |  |  |  | 1 |  |  | 1 |  | 6 |
| Snowy-browed Flycatcher *Ficedula hyperythra* | I | F | 2 |  |  | 2 | 1 |  |  | 4 |
| Fujian Niltava *Niltava davidi* |  | F | 1 |  |  |  |  |  |  |  |
| Rufous-bellied Niltava *Niltava sundara* |  | F |  | 6 | 3 |  | 4 |  | 6 | 3 |
| Yellow-bellied Fantail *Rhipidura hypoxantha* | I | F | 3 | 11 |  | 10 | 1 | 1 |  |  |
| White-throated Fantail *Rhipidura albicollis* | I |  | 8 | 2 |  | 3 | 4 | 2 |  |  |
| Grey-headed Canary Flycatcher *Culicicapa ceylonensis* | I |  |  | 9 | 2 | 2 |  | 4 |  | 1 |
| Verditer Flycatcher *Eumyias thalassina* | I |  |  | 26 | 15 | 13 |  | 1 | 3 |  |
| Yellow-browed Tit *Sylviparus modestus* | I | F |  |  | 1 | 10 |  | 4 | 1 | 3 |
| Great Tit *Parus major* | I |  | 14 |  |  |  | 2 |  |  |  |
| Yellow-cheeked Tit *Parus spilonotus* | I | F |  | 1 |  | 4 |  |  |  |  |
| Green-backed Tit *Parus monticolus* | I | F | 4 | 24 | 57 | 25 |  | 7 | 18 | 1 |
| Black-browed Tit *Aegithalos bonvaloti* | I |  |  | 19 | 24 | 43 |  |  | 59 | 3 |
| Black-throated Tit *Aegithalos concinnus* | I |  |  | 9 | 10 | 30 |  | 11 | 2 |  |
| Chestnut-vented Nuthatch *Sitta nagaensis* | I | F |  |  |  | 4 |  |  |  |  |
| Velvet-fronted Nuthatch *Sitta frontalis* | I | F | 1 |  |  |  | 4 |  |  |  |
| Plain Flowerpecker *Dicaeum concolor* |  |  |  | 3 |  |  |  |  |  |  |
| Fire-breasted Flowerpecker *Dicaeum ignipectus* |  |  |  | 4 |  |  |  |  |  |  |
| Yellow-bellied Flowerpecker *Dicaeum melanoxanthum* |  |  |  | 1 |  |  |  |  |  |  |
| Black-throated Sunbird *Aethopyga saturata* |  |  | 12 |  |  |  | 5 |  |  |  |
| Mrs Gould's Sunbird *Aethopyga gouldiae* |  |  | 1 | 24 | 7 |  |  | 5 | 1 | 1 |
| Green-tailed Sunbird *Aethopyga nipalensis* |  |  |  | 2 |  | 14 |  | 6 |  | 2 |
| Chestnut-flanked White-eye *Zosterops erythropleurus* | I |  |  |  |  |  |  | 3 |  |  |
| Oriental White-eye *Zosterops palpebrosus* |  |  | 76 | 16 | 2 | 7 | 14 | 15 |  | 1 |
| White-rumped Munia *Lonchura striata* |  |  | 3 |  |  |  | 7 |  |  |  |
| Scaly-breasted Munia *Lonchura punctulata* |  |  | 11 |  |  |  |  | 1 |  |  |
| Tibetan Siskin *Carduelis thibetana* |  |  |  | 1 |  |  |  | 1 |  |  |
| Dark-breasted Rosefinch *Carpodacus nipalensis* |  |  |  |  | 2 |  |  |  |  |  |
| Vinaceous Rosefinch *Carpodacus vinaceus* |  |  |  | 1 |  | 1 |  | 7 |  | 1 |
| Common Rosefinch *Carpodacus erythrinus* |  |  |  |  | 13 | 1 |  | 5 | 12 |  |
| Crested Bunting *Melophus lathami* |  |  | 1 |  |  |  |  |  |  |  |
| Chestnut Bunting *Emberiza rutila* |  |  |  |  |  |  |  |  | 1 |  |
| Little Bunting *Emberiza pusilla* |  |  |  | 20 | 2 |  |  | 19 |  |  |
| Tristram's Bunting *Emberiza tristrami* | I |  |  |  |  |  |  | 1 |  |  |
| Yellow-throated Bunting *Emberiza elegans* | I |  |  |  | 2 |  |  |  |  |  |
| Godlewski's Bunting *Emberiza godlewskii* |  |  |  |  | 3 |  |  |  |  |  |
| Bird taxonomy followed Yang *et al*. (1995) and Yang and Yang (2004).  \* I: Insectivore, F: Forest interior  † SF: Secondary forests, FF: Firewood forests, PP: Pine plantations, PF: Primary forests | | | | | | | | | | |