**Supplementary Material - Appendix S5: Species list**

**Appendix S5:** **Table S1**. A list of all 63 bird species (from 32 families) that were included in our hierarchical community distance sampling model to estimate abundance variation along an elevation gradient in the Virunga volcanoes. Species id represents the identifier as used in the model (Appendix S6), corresponding family and species names are shown in columns two and three, with the abbreviation used in the main text in column four. Species optima is the elevational range with the highest expected abundance as estimated in our model.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Species id** | **Family** | **Species name** | **Species names (Table 1)** | **Species optima in elevation (m)** |
| 1 | Accipitridae | *Buteo oreophilus* |  | 1800 - 1900 |
| 2 | Alcedinidae | *Halcyon chelicuti* |  | 2600 - 2700 |
| 3 | Lybiidae | *Pogoniulus bilineatus* | *P. bilineatus* | 1900 - 2100 |
| 4 | Lybiidae | *Pogoniulus coryphaeus* | *P. coryphaeus* | 2200 - 2400 |
| 5 | Lybiidae | *Trachylaemus purpuratus* | *T. purpuratus* | 1800 - 1900 |
| 6 | Colidae | *Colius striatus* |  | 2400 - 2600 |
| 7 | Columbidae | *Columba arquatrix* | *C. arquatrix* | 2500 - 2800 |
| 8 | Columbidae | *Streptopelia lugens* | *S. lugens* | 2300 - 2500 |
| 9 | Columbidae | *Streptopelia semitorquata* | *S. semitorquata* | 2300 - 2500 |
| 10 | Cuculidae | *Centropus monachus* | *C. monachus* | 2200 - 2400 |
| 11 | Cuculidae | *Chrysococcyx klaas* | *C. klaas* | 1800 - 2100 |
| 12 | Cuculidae | *Cuculus solitarius* | *C. solitarius* | 1800 - 1900 |
| 13 | Estrildidae | *Estrilda astrild* | *E. astrild* | 1800 - 2100 |
| 14 | Estrildidae | *Estrilda kandti* | *E. kandti* | 2600 - 2700 |
| 15 | Fringillidae | *Crithagra frontalis* | *C. frontalis* | 1800 - 1900 |
| 16 | Fringillidae | *Crithagra gularis* | *C. gularis* | 1800 - 2000 |
| 17 | Hirundinidae | *Psalidoprocne pristoptera* |  | 1800 - 2000 |
| 18 | Malaconotidae | *Dryoscopus gambensis* | *D. gambensis* | 2400 - 2600 |
| 19 | Malaconotidae | *Laniarius aethiopicus* | *L. aethiopicus* | 1800 - 1900 |
| 20 | Malaconotidae | *Laniarius luehderi* | *L. luehderi* | 2400 - 2600 |
| 21 | Malaconotidae | *Laniarius poensis* | *L. poensis* | 2400 - 2600 |
| 22 | Malaconotidae | *Telophorus dohertyi* | *T. dohertyi* | 2500 - 2800 |
| 23 | Meropidae | *Merops oreobates* |  | 1800 - 1900 |
| 24 | Platysteiridae | *Batis diops* | *B. diops* | 2100 - 2400 |
| 25 | Platysteiridae | *Batis molitor* | *B. molitor* | 2200 - 2500 |
| 26 | Muscicapidae | *Melaenornis fisheri* | *M. fisheri* | 1800 -1900 |
| 27 | Muscicapidae | *Bradornis comitatus* | *B. comitatus* | 2400 - 2600 |
| 28 | Monarchidae | *Terpsiphone viridis* |  | 1800 -1900 |
| 29 | Musophagidae | *Ruwenzorornis johnstoni* | *R. johnstoni* | 2800 - 3100 |
| 30 | Musophagidae | *Tauraco schuettii* | *T. schuettii* | 1800 -1900 |
| 31 | Nectariniidae | *Cinnyris regius* | *C. regius* | 2200 - 2400 |
| 32 | Nectariniidae | *Cinnyris stuhlmanni* | *C. stuhlmanni* | 3100 - 3400 |
| 33 | Nectariniidae | *Cinnyris venustus* | *C. venustus* | 2200 - 2400 |
| 34 | Nectariniidae | *Cyanomitra alinae* | *C.  alinae* | 1800 - 1900 |
| 35 | Nectariniidae | *Hedydipna collaris* | *H. collaris* | 1800 - 1900 |
| 36 | Nectariniidae | *Nectarinia johnstoni* | *N. johnstoni* | 3500 - 3800 |
| 37 | Oriolidae | *Oriolus percivali* |  | 1800 - 1900 |
| 38 | Paridae | *Melaniparus fasciiventer* |  | 2900 - 3300 |
| 39 | Ploceidae | *Ploceus alienus* | *P. alienus* | 2000 - 2300 |
| 40 | Ploceidae | *Ploceus baglafecht* | *P. baglafecht* | 2200 - 2600 |
| 41 | Psittacidae | *Poicephalus meyeri* |  | 2700 - 3000 |
| 42 | Pycnonotidae | *Eurillas latirostris* | *E. latirostris* | 2000 -2200 |
| 43 | Pycnonotidae | *Andropadus nigriceps* | *A. nigriceps* | 2200 - 2400 |
| 44 | Pycnonotidae | *Pycnonotus barbatus* | *P. barbatus* | 1800 - 2000 |
| 45 | Cisticolidae | *Apalis personata* | *A. personata* | 2300 - 2600 |
| 46 | Cisticolidae | *Apalis porphyrolaema* | *A. porphyrolaema* | 2400 - 2600 |
| 47 | Locustellidae | *Bradypterus cinnamomeus* |  | 2700 - 3100 |
| 48 | Acrocephalidae | *Iduna natalensis* | *I. natalensis* | 2600 - 2800 |
| 49 | Acrocephalidae | *Iduna similis* | *I. similis* | 2500 - 2800 |
| 50 | Cisticolidae | *Cisticola chubbi* | *C. chubbi* | 2400 - 2600 |
| 51 | Cisticolidae | *Oreolais ruwenzori* | *O. ruwenzori* | 2000 - 2200 |
| 52 | Phylloscopidae | *Phylloscopus laetus* | *P. laetus* | 2300 - 2600 |
| 53 | Phylloscopidae | *Phylloscopus umbrovirens* | *P. umbrovirens* | 3600 - 3800 |
| 54 | Cisticolidae | *Prinia bairdii* | *P. bairdii* | 1800 - 1900 |
| 55 | Macrosphenidae | *Sylvietta leocophrys* |  | 1800 - 1900 |
| 56 | Pellorneidae | *Illadopsis pyrrhoptera* |  | 1800 - 1900 |
| 57 | Modulatricidae | *Kakamega poliothorax* |  | 1800 - 1900 |
| 58 | Sylviidae | *Pseudoalcippe abyssinica* |  | 1800 - 1900 |
| 59 | Trogonidae | *Apaloderma narina* |  | 2300 - 2600 |
| 60 | Muscicapidae | *Cossypha archeri* | *C. archeri* | 2400 -2800 |
| 61 | Muscicapidae | *Pogonocichla stellata* | *P. stellata* | 2400 - 2600 |
| 62 | Turdidae | *Turdus olivaceus* |  | 1800 - 1900 |
| 63 | Zosteropidae | *Zosterops senegalensis* |  | 2100 - 2400 |