

Supplementary

Table 1. Distribution of birds from different habitat types in Southcentral Mindanao, Philippines, including its feeding guild, population trends, conservation status, and endemism. Legend: ● present, ○ absent

Family Name	Species	Protected Areas	Reforestation	Rubber Plantation	Oil Palm Plantation	Mixed-orchard	Ricefields	Roads	Occurrence	Rarity Value	Sources
Accipitridae	<i>Accipiter virgatus</i>	●	○	○	○	○	○	○	1	0.14	C
Alcedinidae	<i>Ceyx argentatus</i>	●	●	●	○	○	○	○	3	0.43	A,C
Nectariniidae	<i>Anthreptes malacensis</i>	○	●	○	○	○	○	○	1	0.14	C
Aplonidae	<i>Aplonis panayensis</i>	●	●	●	●	●	●	●	7	1	A,B,C
Nectariniidae	<i>Arachnothera flammifera</i>	●	○	○	○	○	○	○	1	0.14	C
Ardeidae	<i>Ardeola speciosa</i>	○	○	○	○	●	●	○	2	0.29	B
Artamidae	<i>Artamus leucoryn</i>	○	○	●	○	●	●	●	4	0.57	B
Podargidae	<i>Batrachostomus septimus</i>	●	●	○	○	○	○	○	2	0.29	C
Psittacidae	<i>Bolbopsittacus lunulatus</i>	●	○	●	○	○	○	○	2	0.29	C
Ardeidae	<i>Bubulcus ibis</i>	○	●	○	○	○	●	○	2	0.29	B,C
Cuculidae	<i>Cacomantis merulinus</i>	○	●	○	●	○	○	○	2	0.29	A,B
Cuculidae	<i>Centropus bengalensis</i>	○	●	○	○	○	○	○	1	0.14	C
Cuculidae	<i>Centropus viridis</i>	○	○	○	○	●	○	●	2	0.29	B
Columbidae	<i>Chalcophaps indica</i>	●	●	●	●	●	●	●	7	1	A,B,C
Nectariniidae	<i>Cinnyris jugularis</i>	●	●	●	●	●	○	●	6	0.86	A,B,C
Cisticolidae	<i>Cisticola juncidis</i>	○	○	○	○	○	●	○	1	0.14	B
Apodidae	<i>Collocalia esculenta</i>	●	●	●	○	●	●	●	6	0.86	A,B,C
Apodidae	<i>Aerodramus vanikorensis</i>	●	○	○	○	○	○	○	1	0.14	C
Muscicapidae	<i>Copsychus mindanensis</i>	○	●	○	●	●	○	●	4	0.57	A,B,C
Corvidae	<i>Corvus macrorhynchos</i>	○	●	●	●	●	○	●	5	0.71	A,B,C
Muscicapidae	<i>Cyornis rufigastra</i>	●	○	●	●	○	○	○	3	0.43	B,C
Dicaeidae	<i>Dicaeum australe</i>	○	●	○	○	●	○	○	2	0.29	B,C

Dicaeidae	<i>Dicaeum hypoleucum</i>	●	○	○	○	○	○	○	○	1	0.14	C
Dicaeidae	<i>Dicaeum trigonostigma</i>	●	○	●	○	○	○	○	○	2	0.29	A,C
Ardeidae	<i>Egretta garzetta</i>	○	○	○	○	○	●	●	○	2	0.29	B
Muscicapidae	<i>Ficedula crypta</i>	●	○	○	○	○	○	○	○	1	0.14	C
Columbidae	<i>Geopelia striata</i>	●	●	●	●	●	●	●	○	7	1	A,B,C
Alcedinidae	<i>Halcyon smyrnensis</i>	●	●	●	●	●	●	○	○	6	0.86	A,B,C
Accipitridae	<i>Haliastur indus</i>	●	●	○	●	○	●	○	○	4	0.57	A,B,C
Trogonidae	<i>Harpactes ardens</i>	●	○	○	○	○	○	○	○	1	0.14	C
Hirundinidae	<i>Hirundo rustica</i>	○	●	○	○	○	○	○	○	1	0.14	C
Hirundinidae	<i>Hirundo javanica</i>	○	○	○	○	●	●	●	○	3	0.43	B
Monarchidae	<i>Hypothymis azurea</i>	○	●	○	○	○	○	○	○	1	0.14	C
Pycnonotidae	<i>Hypsipetes philippinus</i>	○	○	●	○	○	○	○	○	1	0.14	A
Ardeidae	<i>Ixobrychus cinnamomeus</i>	○	●	○	○	○	○	○	○	1	0.14	A
Campephagidae	<i>Lalage nigra</i>	○	●	●	●	●	●	●	○	6	0.86	A,B,C
Laniidae	<i>Lanius cristatus</i>	○	○	○	○	●	●	●	○	3	0.43	B
Estrildidae	<i>Lonchura atricapilla</i>	○	●	●	●	●	●	●	○	6	0.86	A,B,C
Estrildidae	<i>Lonchura leucogastra</i>	●	●	○	○	●	●	●	○	5	0.71	A,B,C
Estrildidae	<i>Lonchura oryzivora</i>	●	●	○	○	●	●	●	○	5	0.71	B,C
Psittacidae	<i>Loriculus philippensis</i>	●	○	○	○	○	○	○	○	1	0.14	C
Timaliidae	<i>Macronus striaticeps</i>	●	●	●	●	○	○	○	○	4	0.57	A,C
Locustellidae	<i>Megalurus palustris</i>	○	○	○	●	●	○	●	○	3	0.43	A,C
Meropidae	<i>Merops philippinus</i>	○	●	●	○	●	●	○	○	4	0.57	A,B,C
Muscicapidae	<i>Muscicapa sp.</i>	○	○	○	○	●	●	●	○	3	0.43	B
Oriolidae	<i>Oriolus chinensis</i>	○	○	○	○	●	○	●	○	2	0.29	B
Strigidae	<i>Otus megalotis</i>	●	○	○	○	○	○	○	○	1	0.14	A
Pachycephalidae	<i>Pachycephala philippinensis</i>	●	○	○	○	○	○	○	○	1	0.14	A
Passeridae	<i>Passer montanus</i>	○	●	●	●	●	●	●	○	6	0.86	A,B,C
Accipitridae	<i>Pernis ptilorhyncus</i>	●	○	○	○	○	○	○	○	1	0.14	C
Columbidae	<i>Phapitreron leucotis</i>	●	●	●	○	○	○	○	○	3	0.43	A,C
Columbidae	<i>Phapitreron amethystinus</i>	●	○	○	○	●	○	●	○	3	0.43	B,C

Pittidae	<i>Pitta sordida</i>	○	●	○	○	○	○	○	○	1	0.14	C
Psittacidae	<i>Prioniturus discurus</i>	●	○	○	○	○	○	○	○	1	0.14	C
Pycnonotidae	<i>Pycnonotus goiavier</i>	●	●	●	●	●	●	●	●	7	1	A,B,C
Pycnonotidae	<i>Pycnonotus sp.</i>	●	●	○	○	○	○	○	○	2	0.29	C
Pycnonotidae	<i>Poliolophus urostictus</i>	○	○	●	○	○	○	○	○	1	0.14	A
Rhipiduridae	<i>Rhipidura nigritorquis</i>	●	●	●	●	●	○	●	●	6	0.86	A,B,C
Columbidae	<i>Spilopelia chinensis</i>	●	○	○	○	●	○	●	●	3	0.43	B,C
Columbidae	<i>Streptopelia tranquebarica</i>	○	○	○	○	○	●	○	○	1	0.14	C
Monarchidae	<i>Terpsiphone cinnamomea</i>	○	●	○	○	○	○	○	○	1	0.14	C
Alcedinidae	<i>Todirhamphus chloris</i>	●	●	●	●	●	●	●	●	7	1	A,B,C
Scolopacidae	<i>Tringa stagnatilis</i>	○	○	○	○	○	○	●	○	1	0.14	B

Sources:

- (A) Achondo, M. J. M. M., Casim, L., Bello, V. P., Tanalgo, K. C., Agduma, A. R., Bretaña, B. L. P., & Supremo, J. P. (2011). Rapid assessment and feeding guilds of birds in selected rubber and oil palm plantations in North Cotabato. *Asian Journal of Biodiversity*, 2, 103-120
- (B) Tanalgo, K. C., Pineda, J. A. F., Agravante, M. E., & Amerol, Z. M. (2015). Bird diversity and structure in different land-use types in lowland south-central Mindanao, Philippines. *Tropical Life Science Research*, 26, 85-103.
- (C) Achondo M J M M, Fernandez-Casim L, Suetos K J E, Agduma A R, Bretana B L P, Supremo J P, Salem J G C, Mancao L S and Bello V P. (2014). Do conservation areas support avifaunal diversity? *Alliance Research Publication*, 1, 19–31.

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Table 2. Endemism across habitat types and feeding guilds

Habitat type	Endemic	Non endemic	Σ	Endemism proportion (%)	
				Endemic	Non endemic
Oil Palm Plantation	2	16	18	11.11	88.89
Rubber Plantation	7	16	23	30.43	69.57
Ricefields	1	23	24	4.17	95.83
Roads	4	21	25	16.00	84.00

Mixed Orchard	5	23	28	17.86	82.14
Protected Areas	15	18	33	45.45	54.55
Reforestation	8	25	33	24.24	75.76

Feeding guild	Endemic	Not endemic	Σ	Endemism proportion (%)	
				Endemic	Endemic
Nectarivore	0	2	2	0.00	100.00
Granivore	0	3	3	0.00	100.00
Omnivore	1	3	4	25.00	75.00
Carnivore	3	12	15	20.00	80.00
Frugivore	9	7	16	56.25	43.75
Insectivore	8	15	23	34.78	65.22