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# Appendix 1. Becker & Agreda - Bird Assemblages in Garua Forests

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**Appendix 1.**

**BIRD COMMUNITY DIFFERENCES IN MATURE AND SECOND GROWTH GARÚA  
FOREST IN MACHALILLA NATIONAL PARK, ECUADOR**

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Running head: BIRD ASSEMBLAGES IN GARUA FORESTS

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**APPENDIX 1.** Bird species mist-netted and observed in mature and second growth *garúa* forest on Cerro San Sebastián, Machalilla National Park, Ecuador. Percentage of captures (not including recaptures, %) and captures per 1000 net-h (Rate) are presented by forest type (mature, second growth) for 85 netted bird species. An \* indicates a significant difference in capture rate by forest type ( $P < 0.05$ ). Abundance codes: C = common (seen, heard, or netted nearly every day of study), U= uncommon (seen, heard, or netted on less than 20% of sampling days), R = rare (seen, heard, or netted once or twice during study). Conservation status codes: EN = endangered, VU = vulnerable, NT = near threatened (Birdlife International 2003), rr = restricted range species of the Tumbesian endemic bird area (Best & Kessler, 1995).

Common Name	Scientific Name	Mature %	Mature rate	Secondary %	Secondary rate	Codes
Little Tinamou	<i>Crypturellus soui</i>					U
King Vulture	<i>Sarcoramphus papa</i>					U
Black Vulture	<i>Coragyps atratus</i>					U
Gray-headed Kite	<i>Leptodon cayanensis</i>					R
Hook-billed Kite	<i>Chondrohierax uncinatus</i>					R
Swallow-tailed Kite	<i>Elanoides forficatus</i>					C
Double-toothed Kite	<i>Harpagus bidentatus</i>					U
Plumbeous Kite	<i>Ictinia plumbea</i>					U
Crane Hawk	<i>Geranospiza caerulescens</i>					U
Gray-backed Hawk	<i>Leucopternis occidentalis</i>					U, EN
Great Black Hawk	<i>Buteogallus urubitinga</i>					U
Harris's Hawk	<i>Parabuteo unicinctus</i>					U
Gray-lined Hawk	<i>Buteo nitidus</i>					U
Black Hawk-Eagle	<i>Spizaetus tyrannus</i>					R

Common Name	Scientific Name	Mature %	Mature rate	Secondary %	Secondary rate	Codes
Ornate Hawk-Eagle	<i>S. ornatus</i>					R
Collared Forest-falcon	<i>Micrastur semitorquatus</i>					U
Laughing Falcon	<i>Herpetotheres cachinnans</i>					R
Bat Falcon	<i>Falco ruficularis</i>					U
Rufous-headed Chachalaca	<i>Ortalis erythroptera</i>					C, VU
Crested Guan	<i>Penelope purpurascens</i>					U
Rufous-fronted Wood-quail	<i>Odontophorus erythrops</i>					C
Ochre-bellied Dove	<i>Leptotila ochraceiventris</i>			0.2	0.9	U, VU, rr
White-tipped Dove	<i>L. verreauxi</i>					C
Pallid Dove	<i>L. pallida</i>					C
Ruddy Quail-Dove	<i>Geotrygon montana</i>					U
Great Green Macaw	<i>Ara ambigua</i>					R, VU, rr
Red-masked Parakeet	<i>Aratinga erythrogenys</i>					C, NT
Bronze-winged Parrot	<i>Pionus chalcopterus</i>					C

Common Name	Scientific Name	Mature %	Mature rate	Secondary %	Secondary rate	Codes
Squirrel Cuckoo	<i>Piaya cayana</i>					U
West Peruvian Screech-owl	<i>Otus roboratus</i>					C
Spectacled Owl	<i>Pulsatrix perspicillata</i>					C
<b>Pacific Pygmy-Owl<sup>1</sup></b>	<i>Glaucidium peruanum</i>	0.3	1.1	0.2	0.9	C, rr
Black-and-white Owl	<i>Strix nigrolineata</i>					U
Mottled Owl	<i>S. virgata</i>					C
Common Potoo	<i>Nyctibius griseus</i>					U
Pauraque	<i>Nyctidromus albicollis</i>			0.7	3	C
Anthony's Nightjar	<i>Caprimulgus anthonyi</i>					R, rr
White-collared Swift	<i>Streptoprocne zonaris</i>					U
Tumbes Swift	<i>Chaetura ocybetes</i>					U
Gray-rumped Swift	<i>C. cinereiventris</i>					C
<b>Baron's Hermit<sup>1</sup></b>	<i>Phaethornis baroni</i>	10.9	39	7.6	29	C, rr
Speckled Hummingbird	<i>Adelomyia melanogenys</i>	4.0	14	6.4	25	C

Common Name	Scientific Name	Mature %	Mature rate	Secondary %	Secondary rate	Codes
Little Woodstar	<i>Chaetocercus bombus</i>					U, VU
Green-crowned Brilliant	<i>Heliodoxa jacula</i>			0.2	0.9	C
Rufous-tailed Hummingbird	<i>Amazilia tzacatl</i>	0.6	2.2	2.4	9.5	C*
Amazilia Hummingbird	<i>Amazilia amazilia</i>	0.6	2.2	1.2	4.8	C*
Green-crowned Woodnymph	<i>Thalurania fannyi</i>	0.6	2.2			U
Violet-bellied Hummingbird	<i>Damophila julie</i>	0.3	1.1	0.2	0.9	U
<b>Western Emerald<sup>1</sup></b>	<i>Chlorostilbon melanorhynchus</i>	0.3	1.1	0.2	0.9	U
<b>Ecuadorian Trogon<sup>1</sup></b>	<i>Trogon mesurus</i>					U
Collared Trogon	<i>T. collaris</i>	0.6	2.2			C
Northern Violaceous Trogon	<i>T. caligatus</i>					R
Barred Puffbird	<i>Nystalus radiatus</i>					U
Red-headed Barbet	<i>Eubucco bourcierii</i>	0.3	1.1			U
Crimson-rumped Toucanet	<i>Aulacorhynchus haematopygus</i>	0.3	1.1			C
Pale-mandibled Araçari	<i>Pteroglossus erythropygius</i>					R

Common Name	Scientific Name	Mature %	Mature rate	Secondary %	Secondary rate	Codes
Chocó Toucan	<i>Ramphastos brevis</i>					C
Golden-olive Woodpecker	<i>Piculus rubiginosus</i>					C
Lineated Woodpecker	<i>Dryocopus lineatus</i>					U
Guayaquil Woodpecker	<i>Campephilus gayaquilensis</i>					C, NT
Black-cheeked Woodpecker	<i>Melanerpes pucherani</i>					R
Scarlet-backed Woodpecker	<i>Veniliornis callonotus</i>					U
Red-rumped Woodpecker	<i>V. kirkii</i>	0.3	1.1			U
Red-billed Scythebill	<i>Campylorhamphus trochilirostris</i>	0.9	3.3			R
Plain-brown Woodcreeper	<i>Dendrocincla fuliginosa</i>	3.1	11	1.7	6.6	C*
Wedge-billed Woodcreeper	<i>Glyphorhynchus spirurus</i>	5	17.8			C*
Olivaceous Woodcreeper	<i>Sittasomus griseicapillus</i>	1.3	4.4	2.2	8.5	C*
Northern Barred-Woodcreeper	<i>Dendrocolaptes certhia</i>	0.3	1.1			R
Spotted Woodcreeper	<i>Xiphorhynchus erythropygius</i>	2.8	10	1.2	4.8	U*
Streak-headed Woodcreeper	<i>Lepidocolaptes souleyetii</i>			0.5	1.9	R



Common Name	Scientific Name	Mature %	Mature rate	Secondary %	Secondary rate	Codes
Slaty Spinetail	<i>Synallaxis brachyura</i>			0.9	4	C
Red-faced Spinetail	<i>Cranioleuca erythrops</i>			0.5	1.9	U
Streaked Xenops	<i>Xenops rutilans</i>					U
Plain Xenops	<i>X. minutus</i>					U
Scaly-throated Foliage-gleaner	<i>Anabacerthia variegaticeps</i>	0.6	2.2			R
Buff-throated Foliage-gleaner	<i>Automolus ochrolaemus</i>	1.3	4.4	0.9	4	U
Henna-hooded Foliage-gleaner	<i>Hylocryptus erythrocephalus</i>			0.5	1.9	U,VU, rr
Tawny-throated Leaf Tosser	<i>Sclerurus mexicanus</i>					U
Scaly-throated Leaf Tosser	<i>S. guatemalensis</i>	0.9	3.3			U
Great Antshrike	<i>Taraba major</i>			0.5	1.9	R
Plain Antwren	<i>Dysithamnus mentalis</i>	3.1	11	6.1	24	C*
Slaty Antwren	<i>Myrmotherula schisticolor</i>	3.8	13	0.2	0.9	C*
<b>Pacific Fire-eye<sup>1</sup></b>	<i>Pyriglena leuconota</i>	4.7	16.7	4.2	16	C
Immaculate Antbird	<i>Myrmeciza immaculata</i>	0.6	2			R

Common Name	Scientific Name	Mature %	Mature rate	Secondary %	Secondary rate	Codes
Bicolored Antbird	<i>Gymnopithys leucaspis</i>	0.9	3.3			U
Black-headed Antthrush	<i>Formicarius nigricapillus</i>	3.8	13	0.5	1.9	C
Scaled Antpitta	<i>Grallaria guatimalensis</i>					U
Watkin's Antpitta	<i>G. watkinsi</i>			0.2	0.9	C
Elegant Crescentchest	<i>Melanopareia elegans</i>					R
Sooty-headed Tyrannulet	<i>Phyllomyias griseiceps</i>					R
Southern Beardless-tyrannulet	<i>Camptostoma obsoletum</i>					U
Pacific Elaenia	<i>Myiopagis subplacens</i>			1.2	4.8	C,rr
Tawny-crowned Pygmy-Tyrant	<i>Euscarthmus meloryphus</i>			0.2	0.9	U
Olive-striped Flycatcher	<i>Mionectes olivaceus</i>	0.3	1.1	0.2	0.9	U
Ochre-bellied Flycatcher	<i>M. oleagineus</i>	3.4	12	2	7.6	C*
Yellow Tyrannulet	<i>Capsiempis flaveola</i>					R
Scale-crested Pygmy-Tyrant	<i>Lophotriccus pileatus</i>	0.3	1.1	1.2	4.8	U*
Common Tody-flycatcher	<i>Todirostrum cinereum</i>					U

Common Name	Scientific Name	Mature %	Mature rate	Secondary %	Secondary rate	Codes
Pacific Flatbill	<i>Rhynchocyclus pacificus</i>	0.3	1.1			U
Yellow-olive Flatbill	<i>Tolmomyias sulphurescens</i>					R
Yellow-margined Flatbill	<i>T. flavotectus</i>					R
White-throated Spadebill	<i>Platyrinchus mystaceus</i>	2.8	10	1.5	5.7	C*
Tawny-breasted Flycatcher	<i>Myiobius villosus</i>					R
Sulphur-rumped Flycatcher	<i>M.sulphureipygius</i>	0.3	1.1			U
Bran-colored Flycatcher	<i>Myiophobus fasciatus</i>			1.5	5.7	C
Olive-sided Flycatcher	<i>Contopus cooperi</i>					R
<b>Tumbes Pewee<sup>1</sup></b>	<i>C. punensis</i>			1	4	C, rr
Smoke-colored Pewee	<i>C. fumigatus</i>					U
Acadian Flycatcher	<i>Empidonax virescens</i>			1	4	U
Gray-breasted Flycatcher	<i>Lathrotriccus griseipectus</i>	1.2	4.4	4.4	17	C,VU,rr*
Ochraceous Attila	<i>Attila torridus</i>	1.2	4.4	0.5	1.9	R,VU,rr
Dusky-capped Flycatcher	<i>Myiarchus tuberculifer</i>					C

Common Name	Scientific Name	Mature %	Mature rate	Secondary %	Secondary rate	Codes
Boat-billed Flycatcher	<i>Megarynchus pitangua</i>					U
Streaked Flycatcher	<i>Myiodynastes maculatus</i>	0.3	1.1	0.2	0.9	R
One-colored Becard	<i>Platypsaris homochrous</i>	0.3	1.1			R
Masked Tityra	<i>Tityra semifasciata</i>					U
White-bearded Manakin	<i>Manacus manacus</i>	2.5	9.0	0.5	1.9	C*
Thrush-like Mourner	<i>Schiffornis turdinus</i>			0.7	2.8	C
Rufous-browed Peppershrike	<i>Cyclarhis gujanensis</i>			0.5	1.9	C
Red-eyed Vireo	<i>Vireo olivaceus</i>			0.5	1.9	C
Lesser Greenlet	<i>Hylophilus decurtatus</i>			0.5	1.9	C
Spotted Nightingale-Thrush	<i>Catharus dryas</i>	2.8	10	0.2	0.9	C*
Swainson's Thrush	<i>C. ustulatus</i>			2.4	9.5	U

Common Name	Scientific Name	Mature %	Mature rate	Secondary %	Secondary rate	Codes
Plumbeous-backed Thrush	<i>Turdus reevei</i>			0.2	0.9	U,rr
Ecuadorian Thrush	<i>T. maculirostris</i>			3.2	12.3	C,rr
<b>Dagua Thrush<sup>1</sup></b>	<i>T. daguae</i>	0.6	2.2			U,rr
Blue-and-White Swallow	<i>Notiochelidon cyanoleuca</i>					U
Whiskered Wren	<i>Thryothorus mystacalis</i>			0.2	0.9	R
Speckle-breasted Wren	<i>T. sclateri</i>			0.7	2.8	U,rr
Gray-breasted Wood-Wren	<i>Henicorhina leucophrys</i>	12.5	44.4	5.6	21.8	C *
Southern Nightingale-Wren	<i>Microcerculus marginatus</i>	3.1	11	0.7	2.8	U*
Song Wren	<i>Cyphorhinus phaeocephalus</i>					R
Tropical Gnatcatcher	<i>Polioptila plumbea</i>					U
Tropical Parula	<i>Parula pititayumi</i>			0.5	1.9	C
Masked Yellowthroat	<i>Geothlypis auricularis</i>			1.0	4	U
Slate-throated Whitestart	<i>Myioborus miniatus</i>	1.2	4.4	0.5	1.9	C

Common Name	Scientific Name	Mature %	Mature rate	Secondary %	Secondary rate	Codes
Gray-and-gold Warbler	<i>Basileuterus fraseri</i>	1.2	4.4	7.8	30.4	C,rr*
Bananaquit	<i>Coereba flaveola</i>			0.2	0.9	C
Orange-bellied Euphonia	<i>Euphonia xanthogaster</i>	1.9	6.7	2.2	8.5	C
Thick-billed Euphonia	<i>E. lanirostris</i>	3.8	13	1.7	6.6	C*
Silver-throated Tanager	<i>Tangara icterocephala</i>					U
Blue-necked Tanager	<i>Tangara cyanicollis</i>					C
Bay-headed Tanager	<i>Tangara gyrola</i>			0.2	0.9	C
Blue-gray Tanager	<i>Thraupis episcopus</i>					C
Palm Tanager	<i>T. palmarum</i>					C
Yellow-rumped Tanager	<i>Ramphocelus icteronotus</i>			0.9	4	C
Highland Hepatic Tanager	<i>Piranga lutea</i>			0.7	2.8	R
Summer Tanager	<i>P. rubra</i>			0.2	0.9	U
Ashy-throated Bush-tanager	<i>Chlorospingus canigularis</i>					U
Buff-throated Saltator	<i>Saltator maximus</i>			0.7	2.8	U

Common Name	Scientific Name	Mature %	Mature rate	Secondary %	Secondary rate	Codes
Streaked Saltator	<i>S. striatipectus</i>			0.7	2.8	C
Slate-colored Grosbeak	<i>S. grossus</i>					R
Southern Yellow-Grosbeak	<i>Pheucticus chrysogaster</i>					R
Blue-black Grosbeak	<i>Cyanocompsa cyanooides</i>			0.2	0.9	U
Variable Seedeater	<i>Sporophila corvina</i>			1.5	5.7	U
Chestnut-capped Brush-finch	<i>Buarremon brunneinucha</i>	5.6	20	2.9	11.4	C*
Orange-billed Sparrow	<i>Arremon aurantiirostris</i>	1.3	4.4			C
Black-capped Sparrow	<i>A. abeillei</i>			5.9	22.8	U, rr *
Yellow-billed Cacique	<i>Amblycercus holosericeus</i>	0.3	1.1	0.7	2.8	U

1. Species recently renamed (Ridgely & Greenfield 2001).