

Table S1. Antbird species reported to attend *Eciton* army ant raids. Most of the reports refer to *Eciton burchellii*, ^p indicates species that have also been reported attending raid of *E. b. parvispinum*, ^r *Eciton rapax* and ^m *E. mexicanum*. The degree of specialization of antbirds is indicated as Ob (Obligate), R (Regular), and Oc (Occasional). For antbird species for which the behaviour of bivouac checking has been observed this is indicated as ^b.

Antbird	Common name	Specialization	References
Cuculidae			
<i>Crotophaga sulcirostris</i>	Groove-billed Ani	Oc/R	[1]
<i>Neomorphus geoffroyi</i>	Rufous-vented Ground Cuckoo	Oc	[2–4]
<i>Piaya cayana</i>	Squirrel Cuckoo	Oc/R	[1,5–7]
Formicariidae			
<i>Formicarius analis</i>	Black-faced Antthrush	R ^b	[2,8,9]
<i>Formicarius colma</i>	Rufous-capped Antthrush	Oc	[10,11]
<i>Formicarius nigricapillus</i> ^p	Black-headed Antthrush	Oc	[7]
<i>Formicarius rufipectus</i> ^p	Rufous-breasted Antthrush	Oc	[6,7]
<i>Phlegopsis borbae</i>	Pale-faced Antbird	Ob	[12]
<i>Phlegopsis erythroptera</i>	Reddish-winged Bare-Eye	Ob	[2,4,13,14]
<i>Phlegopsis nigromaculata</i>	Black-spotted Bare-Eye	Ob	[2,13,15–18]
<i>Pyriglena leuconata</i>	White-backed Fire-eye	Ob	[15]
<i>Pyriglena leucoptera</i>	White-shouldered Fire-eye	Oc	[11]

Furnariidae

<i>Automolus achrolaemus</i> ^p	Buff-thoated Foliage Gleaner	Oc	[7]
<i>Cranioleuca erythrops</i> ^p	Red-faced Spinetail	Oc	[7]
<i>Deconychura longicauda</i>	Long-tailed Woodcreeper	Oc	[5,7]
<i>Dendrocincla anabatina</i>	Tawny-winged Woodcreeper	Ob ^b	[5,9]
<i>Dendrocolaptes certhia</i>	Amazonian Barred Woodcreeper	Ob	[2,6,15]
<i>Dendrocincla fuliginosa</i>	Plain-brown Woodcreeper	R ^b	[2,10,15,19–21]
<i>Dendrocincla homochroa</i>	Ruddy Woodcreeper	Oc ^b	[7,22]
<i>Dendrocincla homochroa</i>	Ruddy Woodcreeper	Oc	[6]
<i>Dendrocincla merula</i>	White-chinned Woodcreeper	Ob	[2,3,10,15,16,18]
<i>Dendrocincla turdina</i>	Plain-winged Woodcreeper	Oc	[11,23]
<i>Dendrocolaptes hoffmannsi</i>	Hoffmann's Woodcreeper	R	[13,24]
<i>Dendrocolaptes platyrostris</i>	Planalto Woodcreeper	Oc	[11]
<i>Dendrocolaptes picumnus</i>	Black-banded Woodcreeper	Ob	[2,10]
<i>Dendrocolaptes sanctithomae</i>	Northern Barred Woodcreeper	Oc ^b	[3,5,7,9,21]
<i>Glyphorynchus spirurus</i>	Wedge-billed Woodcreeper	Oc	[2,5,7]
<i>Hylexetastes perrotii</i>	Red-billed Woodcreeper	Ob	[2]
<i>Lepidocolaptes affinis</i> ^p	Spot-crowned Woodcreeper	Oc	[6,7]
<i>Lepidocolaptes souleyetii</i> ^p	Streak-headed Woodcreeper	Oc	[7]
<i>Margarornis rubiginosus</i> ^p	Ruddy Treerunner	Oc	[7]
<i>Premnoplex brunnescens</i> ^p	Spotted Barbtail	Oc	[7]
<i>Sclerurus mexicanus</i> ^p	Tawny-throated Leaf Tosser	Oc	[7]

Furnariidae (continuation)

<i>Sittasomus griseicapillus</i> ^p	Olivaceous Woodcreeper	Oc	[6,7,11]
<i>Synallaxis ruficapilla</i>	Rufous-capped Spinetail	Oc	[11]
<i>Thripadectes rufobrunneus</i> ^p	Streak-breasted Treehunter	Oc	[7]
<i>Xiphocolaptes albicollis</i>	White-throated Woodcreeper	Oc	[11]
<i>Xiphorhynchus erythropygius</i> ^p	Spotted Woodcreeper	Oc	[7]
<i>Xiphorhynchus fuscus</i>	Lesser Woodcreeper	Oc	[11]
<i>Xiphorhynchus guttatus</i>	Buff-thoated Woodcreeper	R	[2,5]
<i>Xiphorhynchus lachrymosus</i>	Black-stripped Woodcreeper	Oc	[3]
<i>Xiphorhynchus susurrans</i>	Cocoa Woodcreeper	R ^b	[5,9]

Thamnophilidae

<i>Batara cinerea</i>	Giant Antshrike	Oc	[11]
<i>Cercomacra tyrannina</i>	Dusky Antbird	Oc	[8,13]
<i>Cymbilaimus lineatus</i>	Fasciated Antshrike	Oc	[8]
<i>Dysithamnus mentalis</i> ^p	Plain Antvireo	Oc	[7,8]
<i>Dysithamnus striaticeps</i>	Streak-crowned Antvireo	Oc	[8,11]
<i>Gymnocichla nudiceps</i>	Bare-crowned Antbird	R	[1,8,13]
<i>Gymnopathys leucaspis</i> /G. <i>bicolor</i>	Bicolored Antbird	Ob ^b	[1,3–5,7–9,13,21,22]
<i>Gymnopathys lunulatus</i>	Lunulated Antbird	Ob	[5,13]
<i>Gymnopathys rufigula</i>	Rufous-throated Antbird	Ob	[1,10,13,25]
<i>Gymnopathys salvini</i>	White-throated Antbird	Ob	[13,16,18]

Thamnophilidae (continuation)

<i>Hafferia fortis</i>	Sooty Antbird	Ob	[4,13]
<i>Hylophylax naevioides</i> ^m	Spotted Antbird	R/Ob	[1,3,7,8,13,20,22,26,27]
<i>Hylophylax poecilonota</i>	Scale-backed Antbird	R/Oc	[1,2,10,13,15]
<i>Hypocnemis cantator</i>	Warbling Antbird	Oc	[2,13]
<i>Mackenziana severa</i>	Tufted Antshrike	Oc	[11]
<i>Microrhophias quixensis</i>	Dot-winged Antwren	Oc	[8]
<i>Myrmeciza exsul</i> ^p	Chestnut-backed Antbird	Oc	[7,9]
<i>Myrmeciza fortis</i>	Sooty Antbird	R/Ob	[1,18]
<i>Myrmeciza immaculata</i>	Immaculate Antbird	R	[1,6,8,13,22]
<i>Myrmeciza laemosticta</i>	Dull-mantled Antbird	Oc	[7,22]
<i>Myrmeciza zeledoni</i> ^p	Zeledon's Antbird	R ^b	[7]
<i>Myrmoborus leucophrys</i>	White-browed Antbird	R	[2]
<i>Myrmornis torquata</i>	Wing-banded Antbird	Oc	[8]
<i>Myrmotherula axillaris</i>	White-flanked Antwren	Oc	[8,28]
<i>Myrmotherula guttata</i>	Rufous-bellied Antwren	Oc	[28]
<i>Myrmotherula fulviventris</i>	Checker-throated Stipplethroat	Oc	[8,28]
<i>Myrmotherula gularis</i>	Star-throated Antwren	Oc	[11,28]
<i>Myrmotherula hauxwelli</i> ^{p, r}	Plain-throated Antwren	Oc	[28]
<i>Myrmotherula schisticolor</i>	Slaty Antwren	Oc	[5,7,28]
<i>Percnostola rufifrons</i>	Black-headed Antbird	R	[1,2,10]
<i>Phaenostictus mcleannani</i>	Ocellated Antbird	Ob	[1,3,7,8,13,21,22,29–31]

Thamnophilidae (continuation)

<i>Pithys albifrons</i>	White-plumed Antbird	Ob	[2,4,10,13]
<i>Pithys castaneus</i>	White-masked Antbird	Ob	[13]
<i>Rhegmatorhina berlepschi</i>	Harlequin Antbird	R/Oc	[32]
<i>Rhegmatorhina cristata</i>	Chestnut-crested Antbird	R	[32]
<i>Rhegmatorhina gymnops</i>	Bare-eyed Antbird	Ob	[13,17,32]
<i>Rhegmatorhina hoffmannsi</i>	White-breasted Antbird	R/Ob	[13,32]
<i>Rhegmatorhina melanosticta</i>	Hairy-crested Antbird	Ob	[4,12,13,16,32]
<i>Skutchia borbae</i>	Pale-faced Antbird	R	[1]
<i>Taraba major</i>	Great Antshrike	Oc	[5,8]
<i>Thamnistes anabatinus</i>	Russet Antshrike	Oc	[8]
<i>Thamnomanes caecius</i>	Cinereous Antshrike	Ob	[17]
<i>Thamnomanes saturninus</i>	Saturnine Antshrike	Oc	[17]
<i>Thamnophilus atrinucha</i> ^p	Black-crowned Antshrike	Oc	[7]
<i>Thamnophilus bridgesi</i>	Black-hooded Antshrike	Oc	[5,9]
<i>Thamnophilus doliatus</i>	Barred Antshrike	Oc	[8]

Thraupidae

<i>Chlorospingus ophthalmicus</i>	Common Bush-Tanager	Oc	[6]
<i>Eucometis penicillata</i>	Gray-headed Tanager	Ob ^b	[5,7,9,15,33]
<i>Habia atrimaxillaris</i>	Black-cheeked Ant-Tanager	Ob ^b	[1,5,9]
<i>Habia fuscicauda</i>	Red-throated Ant-Tanager	R	[1]

Thraupidae (continuation)

<i>Habia gutturalis</i>	Sooty Ant-Tanager	R	[1]
<i>Lanio leucothorax</i>	White-throated Shrike-Tanager	Oc	[5,9]
<i>Pipra coronata</i>	Blue-crowned Manakin	Oc	[5,9]
<i>Pipra mentalis</i>	Red-capped Manakin	Oc	[5,9]

Pipridae

<i>Pseudopipra pipra</i>	White-crowned Manakin	Oc	[2]
<i>Ramphocelus melanurus</i>	Long-billed Gnatwren	Oc	[7]
<i>Ramphocelus sanguinolentus</i>	Crimson-collared Tanager	Oc	[7]
<i>Trichothraupis melanops</i>	Black-glogged Tanager	Oc	[11]

Tyrannidae

<i>Attila spadiceus</i>	Bright-rumped Attila	R	[2,5]
<i>Corapipo altera</i>	White-ruffed Manakin	R	[2]
<i>Lathrotriccus euleri</i>	Euler's Flycatcher	Oc	[11]
<i>Myarchus tuberculifer</i> ^p	Dusky-capped Flycatcher	Oc	[7]
<i>Platyrinchus coronatus</i> ^p	Golden-crowned Spadebill	Oc	[5,7]
<i>Platyrinchus mystaceus</i> ^p	White-throated Spadebill	Oc	[6,7]
<i>Rhynchocyclus brevirostris</i>	Eye-ringed Flatbill	Oc	[5]

Turdidae

<i>Catharus aurantiirostris</i>	Orange-billed Nightingale Thrush	Oc ^b	[6,7,22]
<i>Catharus frantzii</i>	Ruddy-capped Nightingale Thrush	Oc	[6,7]
<i>Catharus fuscater</i>	Slaty-backed Nightingale Thrush	Oc ^b	[6,7,22]
<i>Catharus gracilirostris</i>	Black-billed Nightingale Thrush	Oc	[6]
<i>Catharus mexicanus</i>	Black-headed Nightingale Thrush	Oc	[7]
<i>Catharus ustulatus</i>	Swainson's Thrush	Oc	[7]
<i>Hylocichla mustelina</i>	Wood Thrush	Oc	[5–7,22]
<i>Myadestes melanops</i>	Black-faced Solitaire	Oc	[7]
<i>Turdus albicollis</i>	White-necked Thrush	R	[2]
<i>Turdus assimilis</i> ^p	White-throated Thrush	Oc	[6,7]
<i>Turdus grayi</i> ^p	Clay-coloured Thrush	Oc	[6,7]

Locustellidae

<i>Locustella fluviatilis</i>	River Warbler	Oc	[2]
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Conopophagidae

<i>Conopophaga aurita</i>	Chestnut-belted Gnatcatcher	Oc	[2]
<i>Conopophaga lineata</i>	Rufous Gnatcatcher	Oc	[11]
<i>Conopophaga melanops</i>	Black-cheeked Gnatcatcher	Oc	[11]

Psophiidae

<i>Psophia crepitans</i>	Gray-winged Trumpeter	Oc	[2,4]
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Bucconidae

<i>Monasa atra</i>	Black Nunbird	Oc	[2]
<i>Malacoptila panamensis</i>	White-wiskered Puffbird	Oc	[5,9]

Emberizidae

<i>Atlapetes brunneinucha</i>	Chestnut-capped Brush-Finch	Oc	[6]
<i>Atlapetes gutturalis</i> / <i>albinucha</i> ^p	Yellow-throated Brush Finch	Oc	[6,7]
<i>Melozone leucotis</i> ^p	White-eared Ground Sparrow	Oc ^b	[6,7,22]
<i>Tiaris olivacea</i>	Yellow-faced Grassquit	Oc	[6]

Momotidae

<i>Momotus coeruliceps</i> ^p	Blue-diademed Motmot	Oc ^b	[7]
<i>Momotus momota</i>	Blue-crowned Motmot	Oc	[5,6,22]

Troglodytidae

<i>Cantorchilus modestus</i> ^p	Cabani's Wren	Oc	[7]
<i>Cantorchilus thoracicus</i> ^p	Stripe-breasted Wren	Oc	[7]
<i>Cyphorhinus phaeocephalus</i> ^p	Song Wren	Oc	[7]
<i>Henicorhina leucophrys</i> ^p	Grey-breasted Wood Wren	Oc	[6,7]
<i>Henicorhina leucosticta</i> ^p	White-breasted Wood Wren	Oc	[6,7]
<i>Microcerculus luscini</i>	Whistling Wren	Oc	[5]

Troglodytidae (continuation)

<i>Thryothorus modestus</i>	Plain Wren	Oc	[6]
<i>Thryothorus rufalbus</i> ^p	Rufous-and-white Wren	Oc ^b	[6,7,22]
<i>Thryothorus semibadius</i>	Riverside Wren	Oc	[5,9]
<i>Thryothorus/Pheugopedius atrogularis</i> ^p	Black-throated Wren	Oc	[6,7]
<i>Troglodytes aedon</i> ^p	House Wren	Oc	[7]
<i>Troglodytes ochraceus</i> ^p	Ochraceous Wren	Oc	[7]

Corvidae

<i>Cyanocorax morio</i>	Brown Jay	Oc	[6,22]
<i>Cyanolyca cucullata</i> ^p	Azure-hoode Jay	Oc	[6,7,22]
<i>Psilorhinus morio</i> ^p	Brown Jay	Oc ^b	[7]

Parulidae

<i>Basileuterus culicivorus</i> ^p	Golden-crowned Warbler	Oc ^b	[6,7,22]
<i>Basileuterus rivularis</i>	Riverbank Warbler	Oc	[11]
<i>Basileuterus rufifrons</i> ^p	Rufous-capped Warbler	Oc ^b	[6,7,13,22]
<i>Basileuterus tristriatus</i>	Three-striped Warbler	Oc	[6,7,22]
<i>Cardellina canadensis</i> ^p	Canada Warbler	Oc	[7]
<i>Dendroica virens</i> ^p	Black-throated Green Warbler	Oc	[6,22]
<i>Geothlypis formosa</i> ^p	Kentucky Warbler	Oc	[7]
<i>Mniotilta varia</i>	Black-and-white Warbler	Oc	[6,7,22]

Parulidae (continuation)

<i>Myioborus miniatus</i>	Slate-throated Redstart	Oc	[6,7,22]
<i>Oporornis formosus</i>	Kentucky Warbler	Oc	[5,6,22]
<i>Phaeothlypsis/Myiothlypis fulvicauda</i>	Buff-rumped Warbler	Oc	[5,7]
<i>Seiurus aurocapilla</i> ^p	Ovenbird	Oc	[7,22]
<i>Setophaga / Dendroica pensylvanica</i>	Chesnut-sided Warbler	Oc	[7,22]
<i>Setophaga virens</i> ^p	Black-throated Green Warbler	Oc	[7]
<i>Vermivora chrysoptera</i> ^p	Golden-winged Warbler	Oc	[7,22]
<i>Wilsonia canadensis</i> ^p	Canada Warbler	Oc	[6,22]
<i>Wilsonia/Cardellina pusilla</i> ^p	Wilson's Warbler	Oc	[6,7,22]

Ramphastidae

<i>Aulacorhynchus caeruleogularis</i> ^p	Blue-throated Toucanet	Oc ^b	[7]
<i>Aulacorhynchus prasinus</i>	Emerald Toucanet	Oc	[6]

Tyranidae

<i>Empidonax flavescens</i> ^p	Yellowish Flycatcher	Oc	[6,7]
<i>Mitrephanes phaeocercus</i> ^p	Tufted Flycatcher	Oc	[6,7]

Falconidae

<i>Micrastur gilvicollis</i>	Lined Forest-Falcon	Oc	[1]
<i>Micrastur ruficollis</i> ^p	Barred Forest-Falcon	Oc/R	[1,6,7]

Falconidae (continuation)

<i>Micrastur semitorquatus</i> ^p	Collared Forest-Falcon	Oc	[5,34]
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Columbidae

<i>Columbina talpacoti</i>	Ruddy Quail-Dove	Oc	[5]
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<i>Geotrygon chiriquensis</i>	Chiriqui Quail-Dove	Oc	[6]
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Passerellidae

<i>Arremon aurantirostris</i>	Orange-billed Sparrow	Oc	[5,9]
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<i>Arremon brunneinucha</i> ^p	Chestnut-capped Brush Finch	Oc ^b	[7]
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<i>Chlorospingus flavopectus</i> ^p	Common Chlorospingus	Oc	[7]
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<i>Mionectes oleagineus</i>	Ochre-bellied Flycatcher	Oc	[5,9]
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<i>Mionectes olivaceus</i> ^p	Olive-striped Flycatcher	Oc	[7]
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Grallariidae

<i>Hylopezus fulviventr</i>	Fulvous-breasted Antpitta	Oc	[8]
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<i>Hylopezus perspicillatus</i>	Spectacled Antpitta/ Streak-chested Antpitta	Oc	[5,8]
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Vireonidae

<i>Hylophilus decurtatus</i> / <i>Pachysylvia decurtata</i>	Lesser Greenlet	Oc	[8,22]
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<i>Hylophilus ochraceiceps</i>	Tawny-crowned Greenlet	Oc	[5,8]
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<i>Vireo philadelphicus</i> ^p	Philadelphia Vireo	Oc	[7,22]
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Accipitridae

<i>Buteo magnirostris</i>	Roadside Hawk	Oc	[5]
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Accipitridae (continuation)

<i>Buteogallus anthracinus</i>	Common Black Hawk	Oc	[5]
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Tinamidae

<i>Tinamus major</i>	Great Tinamou	Oc	[5]
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Cracidae

<i>Crux rubra</i>	Great Curassow	Oc	[5]
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Tityridae

<i>Myiobius sulphureipygius</i>	Sulphur-rumped Flycatcher	Oc	[5]
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<i>Schiffornis turdinus</i>	Thrushlike Schiffornis	Oc	[5]
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Trogonidae

<i>Trogon rufus</i>	Black-throated Trogon	Oc	[5]
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Cotingidae

<i>Lipaugus unirufus</i>	Rufous Pitha	Oc	[5]
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Poliophtidae

Ramphocaenus melanurus Long-billed Gnatwren Oc [5]

Rhinocryptidae

Scytalopus argentifrons ^p Silvered-fronted Tapaculo Oc [7]

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