

Ecography

ECOG-03040

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Supplementary material

Appendix 1.

Table A1. List of species included in the study and number of female and male specimens measured.

Scientific name	Common name	females	males
Acanthiza_apicalis	Inland Thornbill	3	3
Acanthiza_chrysurhoa	Yellow-rumped Thornbill	3	3
Acanthiza_ewingii	Tasmanian Thornbill	1	2
Acanthiza_inornata	Western Thornbill	3	3
Acanthiza_iredalei	Slender-billed Thornbill	3	1
Acanthiza_katherina	Mountain Thornbill	2	2
Acanthiza_lineata	Striated Thornbill	3	3
Acanthornis_magna	Scrubtit	1	1
Acanthiza_nana	Yellow Thornbill	2	3
Acanthiza_pusilla	Brown Thornbill	3	3
Acanthiza_reguloides	Buff-rumped Thornbill	3	3
Acanthiza_robustirostris	Slaty-backed Thornbill	1	1
Acanthagenys_rufogularis	Spiny-cheeked Honeyeater	3	3
Acanthorhynchus_superciliosus	Western Spinebill	3	3
Acanthorhynchus_tenuirostris	Eastern Spinebill	3	3
Acanthiza_uropygialis	Chestnut-rumped Thornbill	3	3
Accipiter_cirrocephalus	Collared Sparrowhawk	3	3
Accipiter_fasciatus	Brown Goshawk	3	3
Accipiter_novaehollandiae	Grey Goshawk	2	2
Acrocephalus_australis	Australian Reed-Warbler	1	3
Aegotheles_cristatus	Australian Owlet-nightjar	3	3
Collocalia_terraereginae	Australian Swiftlet	2	0
Ailuroedus_crassirostris	Green Catbird	2	3
Ailuroedus_melanotis	Spotted Catbird	3	3
Alectura_lathamii	Australian Brush-turkey	3	2
Alisterus_scapularis	Australian King-Parrot	3	3
Amaurornis_moluccana	Pale-vented Bush-hen	1	2
Prionodura_newtoniana	Golden Bowerbird	3	3
Amytornis_ballarae	Kalkadoon Grasswren	3	3
Amytornis_barbatus	Grey Grasswren	2	3
Amytornis_dorotheae	Carpentarian Grasswren	5	5
Amytornis_goyderi	Eyrean Grasswren	3	5
Amytornis_housei	Black Grasswren	1	1
Amytornis_merrotsyi	Short-tailed Grasswren	3	2
Amytornis_purnelli	Dusky Grasswren	3	3
Amytornis_striatus	Striated Grasswren	2	3
Amytornis_textilis	Thick-billed Grasswren	3	3
Amytornis_woodwardi	White-throated Grasswren	2	3
Anas_castanea	Chestnut Teal	3	3

Anas_gracilis	Grey Teal	3	3
Anas_rhynchotis	Australasian Shoveler	3	2
Anas_superciliosa	Pacific Black Duck	3	3
Anhinga_novaehollandiae	Australasian Darter	3	3
Anseranas_semipalmata	Magpie Goose	0	2
Anthochaera_carunculata	Red Wattlebird	3	3
Anthochaera_chrysoptera	Little Wattlebird	3	3
Anthochaera_lunulata	Western Wattlebird	3	2
Anthus_novaeseelandiae	Australasian Pipit	3	3
Anthochaera_paradoxa	Yellow Wattlebird	2	3
Xanthomyza_phrygia	Regent Honeyeater	3	3
Aphelocephala_leucopsis	Southern Whiteface	3	3
Aphelocephala_nigricincta	Banded Whiteface	1	2
Aphelocephala_pectoralis	Chestnut-breasted Whiteface	1	1
Aplonis_metallica	Metallic Starling	3	3
Aprosmictus_erythropterus	Red-winged Parrot	3	3
Aquila_audax	Wedge-tailed Eagle	2	3
Ardeotis_australis	Australian Bustard	2	1
Bubulcus_ibis	Cattle Egret	1	0
Mesophoyx_intermedia	Intermediate Egret	1	3
Ardea_pacifica	White-necked Heron	3	1
Arses_kaupi	Pied Monarch	2	1
Arses_telescopthalmus	Frilled Monarch	0	1
Artamus_cinereus	Black-faced Woodswallow	3	3
Artamus_cyanopterus	Dusky Woodswallow	3	3
Artamus_leucorhynchus	White-breasted Woodswallow	3	1
Artamus_minor	Little Woodswallow	3	3
Artamus_personatus	Masked Woodswallow	3	3
Artamus_superciliosus	White-browed Woodswallow	3	3
Ashbyia_lovensis	Gibberbird	3	1
Atrichornis_clamosus	Noisy Scrub-bird	0	1
Atrichornis_rufescens	Rufous Scrub-bird	1	3
Aviceda_subcristata	Pacific Baza	2	3
Aythya_australis	Hardhead	3	3
Barnardius_zonarius	Australian Ringneck	3	3
Biziura_lobata	Musk Duck	2	3
Botaurus_poiciloptilus	Australasian Bittern	3	3
Burhinus_grallarius	Bush Stone-curlew	1	1
Butorides_striata	Striated Heron	2	3
Cacomantis_castaneiventris	Chestnut-breasted Cuckoo	0	3
Cacomantis_flabelliformis	Fan-tailed Cuckoo	3	3
Cacatua_galerita	Sulphur-crested Cockatoo	3	1
Cuculus_pallidus	Pallid Cuckoo	3	3
Cacatua_pastinator	Western Corella	2	3

Cacatua_sanguinea	Little Corella	3	3
Cacatua_tenuirostris	Long-billed Corella	3	3
Cacomantis_variolosus	Brush Cuckoo	2	3
Calyptorhynchus_banksii	Red-tailed Black-Cockatoo	3	3
Calyptorhynchus_baudinii	Baudin's Black-Cockatoo	2	2
Calamanthus_campestris	Rufous Fieldwren	1	1
Callocephalon_fimbriatum	Gang-gang Cockatoo	3	3
Calamanthus_fuliginosus	Striated Fieldwren	3	3
Calyptorhynchus_funereus	Yellow-tailed Black-Cockatoo	3	2
Calyptorhynchus_lathamii	Glossy Black-Cockatoo	3	3
Calyptorhynchus_latirostris	Carnaby's Black-Cockatoo	2	0
Caprimulgus_macrurus	Large-tailed Nightjar	1	2
Monarcha_leucotis	White-eared Monarch	1	3
Casuaris_casuaris	Southern Cassowary	2	1
Centropus_phasianinus	Pheasant Coucal	2	3
Cereopsis_novaehollandiae	Cape Barren Goose	1	2
Certhionyx_variegatus	Pied Honeyeater	3	3
Alcedo_azurea	Azure Kingfisher	3	3
Alcedo_pusilla	Little Kingfisher	3	3
Charadrius_australis	Inland Dotterel	3	2
Chrysococcyx_basalis	Horsfield's Bronze-Cuckoo	3	3
Chalcophaps_indica	Emerald Dove	3	3
Chrysococcyx_lucidus	Shining Bronze-Cuckoo	3	3
Chrysococcyx_minutillus	Little Bronze-Cuckoo	1	3
Chrysococcyx_osculans	Black-eared Cuckoo	3	3
Charadrius_ruficapillus	Red-capped Plover	0	3
Chenonetta_jubata	Australian Wood Duck	3	3
Cheramoeca_leucosterna	White-backed Swallow	3	2
Chlidonias_hybrida	Whiskered Tern	3	3
Larus_novaehollandiae	Silver Gull	3	3
Chthonicola_sagittatus	Speckled Warbler	6	6
Cinclosoma_castaneothorax	Chestnut-breasted Quail-thrush	1	1
Cinclosoma_castanotum	Chestnut Quail-thrush	1	2
Cinclosoma_cinnamomeum	Cinnamon Quail-thrush	1	2
Cincloramphus_cruralis	Brown Songlark	1	3
Cincloramphus_mathewsi	Rufous Songlark	1	3
Cinclosoma_punctatum	Spotted Quail-thrush	3	3
Circus_approximans	Swamp Harrier	1	1
Circus_assimilis	Spotted Harrier	0	3
Cisticola_exilis	Golden-headed Cisticola	2	2
Cisticola_juncidis	Zitting Cisticola	3	2
Certhionyx_pectoralis	Banded Honeyeater	2	3
Cladorhynchus_leucocephalus	Banded Stilt	3	3
Climacteris_affinis	White-browed Treecreeper	1	2

Climacteris_erythropros	Red-browed Treecreeper	3	3
Climacteris_melanurus	Black-tailed Treecreeper	3	2
Climacteris_picumnus	Brown Treecreeper	3	3
Climacteris_rufus	Rufous Treecreeper	2	3
Colluricincla_boweri	Bower's Shrike-thrush	2	3
Colluricincla_harmonica	Grey Shrike-thrush	2	3
Columba_leucomela	White-headed Pigeon	2	3
Colluricincla_megarhyncha	Little Shrike-thrush	3	3
Colluricincla_woodwardi	Sandstone Shrike-thrush	2	3
Conopophila_albogularis	Rufous-banded Honeyeater	3	3
Conopophila_rufogularis	Rufous-throated Honeyeater	3	3
Conopophila_whitei	Grey Honeyeater	3	4
Cormobates_leucophaea	White-throated Treecreeper	3	3
Coracina_lineata	Barred Cuckoo-shrike	2	3
Coracina_maxima	Ground Cuckoo-shrike	1	1
Coracina_novaehollandiae	Black-faced Cuckoo-shrike	3	3
Coracina_papuensis	White-bellied Cuckoo-shrike	1	1
Coracina_tenuirostris	Cicadabird	2	3
Corcorax_melanorhamphos	White-winged Chough	3	3
Corvus_bennetti	Little Crow	2	3
Corvus_coronoides	Australian Raven	3	3
Corvus_mellori	Little Raven	3	3
Corvus_orru	Torresian Crow	3	3
Corvus_tasmanicus	Forest Raven	2	2
Coturnix_pectoralis	Stubble Quail	3	3
Coturnix_ypsilophora	Brown Quail	3	3
Cracticus_mentalis	Black-backed Butcherbird	2	2
Cracticus_nigrogularis	Pied Butcherbird	1	3
Cracticus_quoyi	Black Butcherbird	3	3
Gymnorhina_tibicen	Australian Magpie	3	3
Cracticus_torquatus	Grey Butcherbird	2	3
Cyclopsitta_diophthalma	Double-eyed Fig-Parrot	0	1
Cygnus_atratus	Black Swan	1	0
Dacelo_leachii	Blue-winged Kookaburra	3	3
Dacelo_novaeguineae	Laughing Kookaburra	3	3
Daphoenositta_chrysoptera	Varied Sittella	3	3
Dasyornis_brachypterus	Eastern Bristlebird	2	3
Dasyornis_broadbenti	Rufous Bristlebird	1	3
Dasyornis_longirostris	Western Bristlebird	1	1
Dendrocygna_arcuata	Wandering Whistling-Duck	1	2
Dendrocygna_eytoni	Plumed Whistling-Duck	3	2
Dicrurus_bracteatus	Spangled Drongo	3	2
Dicaeum_hirundinaceum	Mistletoebird	3	3
Dromaius_novaehollandiae	Emu	2	0

Drymodes_brunneopygia	Southern Scrub-robin	2	3
Drymodes_superciliaris	Northern Scrub-robin	0	4
Ducula_bicolor	Pied Imperial-Pigeon	3	3
Eclectus_roratus	Eclectus Parrot	3	3
Egretta_garzetta	Little Egret	1	2
Egretta_novaehollandiae	White-faced Heron	3	3
Ardea_picata	Pied Heron	3	3
Egretta_sacra	Eastern Reef Egret	3	2
Elanus_axillaris	Black-shouldered Kite	3	3
Elanus_scriptus	Letter-winged Kite	3	2
Elseyornis_melanops	Black-fronted Dotterel	3	3
Emblema_pictum	Painted Finch	3	3
Entomyzon_cyanotis	Blue-faced Honeyeater	3	3
Cacatua_roseicapilla	Galah	3	3
Eopsaltria_australis	Eastern Yellow Robin	3	3
Eopsaltria_georgiana	White-breasted Robin	2	2
Eopsaltria_griseogularis	Western Yellow Robin	2	3
Ephippiorhynchus_asiaticus	Black-necked Stork	1	0
Epthianura_albifrons	White-fronted Chat	3	3
Epthianura_aurifrons	Orange Chat	3	3
Epthianura_crocea	Yellow Chat	2	2
Epthianura_tricolor	Crimson Chat	3	3
Eremiornis_carteri	Spinifexbird	2	3
Erythrogonys_cinctus	Red-kneed Dotterel	3	3
Erythrura_gouldiae	Gouldian Finch	3	3
Erythrotriorchis_radiatus	Red Goshawk	3	3
Erythrura_trichroa	Blue-faced Parrot-Finch	1	1
Esacus_giganteus	Beach Stone-curlew	1	1
Eulabeornis_castaneoventris	Chestnut Rail	3	1
Eurostopodus_argus	Spotted Nightjar	3	3
Eurostopodus_mystacalis	White-throated Nightjar	2	2
Eurystomus_orientalis	Dollarbird	3	3
Coturnix_chinensis	King Quail	3	3
Falco_berigora	Brown Falcon	3	3
Falco_cenchroides	Nankeen Kestrel	3	3
Falcunculus_frontatus	Crested Shrike-tit	3	3
Falco_hypoleucos	Grey Falcon	0	3
Falco_longipennis	Australian Hobby	3	3
Falco_peregrinus	Peregrine Falcon	3	3
Falco_subniger	Black Falcon	2	3
Fulica_atra	Eurasian Coot	3	3
Gallirallus_philippensis	Buff-banded Rail	3	3
Gallinula_tenebrosa	Dusky Moorhen	3	3
Sterna_nilotica	Gull-billed Tern	1	3

Geopelia_cuneata	Diamond Dove	3	3
Geoffroyus_geoffroyi	Red-cheeked Parrot	2	2
Geopelia_humeralis	Bar-shouldered Dove	3	3
Geophaps_plumifera	Spinifex Pigeon	3	3
Geophaps_scripta	Squatter Pigeon	2	2
Geophaps_smithii	Partridge Pigeon	2	3
Geopelia_placida	Peaceful Dove	3	3
Gerygone_olivacea	White-throated Gerygone	3	2
Gerygone_chloronota	Green-backed Gerygone	1	3
Gerygone_fusca	Western Gerygone	2	2
Gerygone_levigaster	Mangrove Gerygone	3	1
Gerygone_magnirostris	Large-billed Gerygone	2	2
Gerygone_mouki	Brown Gerygone	2	2
Gerygone_palpebrosa	Fairy Gerygone	1	3
Gerygone_tenebrosa	Dusky Gerygone	3	3
Glossopsitta_concinna	Musk Lorikeet	3	3
Glossopsitta_porphyrocephala	Purple-crowned Lorikeet	3	3
Glossopsitta_pusilla	Little Lorikeet	2	3
Glycichaera_fallax	Green-backed Honeyeater	2	2
Phylidonyris_melanops	Tawny-crowned Honeyeater	3	3
Grallina_cyanoleuca	Magpie-lark	3	3
Grantiella_picta	Painted Honeyeater	3	3
Grus_rubicunda	Brolga	2	3
Haematopus_fuliginosus	Sooty Oystercatcher	1	3
Haematopus_longirostris	Australian Pied Oystercatcher	3	2
Haliastur_indus	Brahminy Kite	2	1
Haliaeetus_leucogaster	White-bellied Sea-Eagle	3	1
Haliastur_sphenurus	Whistling Kite	2	3
Hamirostra_melanosternon	Black-breasted Buzzard	1	0
Heteromyias_albispecularis	Grey-headed Robin	3	3
Heteromunia_pectoralis	Pictorella Mannikin	3	3
Hieraaetus_morphnoides	Little Eagle	3	2
Himantopus_himantopus	Black-winged Stilt	3	1
Hirundo_neoxena	Welcome Swallow	3	3
Sterna_caspia	Caspian Tern	1	2
Hylacola_cauta	Shy Heathwren	2	3
Hylacola_pyrrhopygia	Chestnut-rumped Heathwren	3	3
Irediparra_gallinacea	Comb-crested Jacana	3	1
Ixobrychus_sinensis	Australian Little Bittern	2	3
Ixobrychus_flavicollis	Black Bittern	1	2
Lalage_leucomela	Varied Triller	3	3
Lalage_tricolor	White-winged Triller	2	3
Larus_dominicanus	Kelp Gull	3	3
Larus_pacificus	Pacific Gull	1	3

Lathamus_discolor	Swift Parrot	3	3
Leipoa_ocellata	Malleefowl	1	1
Leucosarcia_melanoleuca	Wonga Pigeon	2	2
Lewinia_pectoralis	Lewin's Rail	3	3
Lichenostomus_chrysops	Yellow-faced Honeyeater	3	3
Lichenostomus_cratitius	Purple-gaped Honeyeater	3	3
Lichenostomus_fasciogularis	Mangrove Honeyeater	1	1
Lichenostomus_flavescens	Yellow-tinted Honeyeater	3	3
Lichenostomus_flavicollis	Yellow-throated Honeyeater	3	3
Lichenostomus_flavus	Yellow Honeyeater	3	2
Lichenostomus_frenatus	Bridled Honeyeater	3	3
Lichenostomus_fuscus	Fuscous Honeyeater	3	3
Lichenostomus_hindwoodi	Eungella Honeyeater	2	1
Lichmera_indistincta	Brown Honeyeater	3	3
Lichenostomus_keartlandi	Grey-headed Honeyeater	2	1
Lichenostomus_leucotis	White-eared Honeyeater	3	3
Lichenostomus_melanops	Yellow-tufted Honeyeater	3	3
Lichenostomus_ornatus	Yellow-plumed Honeyeater	3	3
Lichenostomus_penicillatus	White-plumed Honeyeater	3	3
Lichenostomus_plumulus	Grey-fronted Honeyeater	2	3
Lichenostomus_unicolor	White-gaped Honeyeater	3	3
Lichenostomus_versicolor	Varied Honeyeater	3	4
Lichenostomus_virescens	Singing Honeyeater	3	3
Lonchura_castaneothorax	Chestnut-breasted Mannikin	3	3
Lonchura_flaviprymna	Yellow-rumped Mannikin	1	2
Lopholaimus_antarcticus	Topknot Pigeon	3	3
Lophoictinia_isura	Square-tailed Kite	1	3
Cacatua_leadbeateri	Major Mitchell's Cockatoo	3	3
Macropygiaamboinensis	Brown Cuckoo-Dove	1	3
Machaerirhynchus_flaviventer	Yellow-breasted Boatbill	1	3
Malurus_amabilis	Lovely Fairy-wren	2	3
Malurus_coronatus	Purple-crowned Fairy-wren	3	2
Malurus_cyaneus	Superb Fairy-wren	3	3
Malurus_elegans	Red-winged Fairy-wren	2	3
Malurus_lamberti	Variegated Fairy-wren	2	3
Malurus_leucopterus	White-winged Fairy-wren	3	3
Malurus_melanocephalus	Red-backed Fairy-wren	3	3
Malacorhynchus_membranaceus	Pink-eared Duck	2	3
Malurus_pulcherrimus	Blue-breasted Fairy-wren	2	3
Malurus_splendens	Splendid Fairy-wren	2	3
Manorina_flavigula	Yellow-throated Miner	3	3
Manorina_melanocephala	Noisy Miner	3	3
Manorina_melanophrys	Bell Miner	3	3
Manorina_melanotis	Black-eared Miner	1	2

Megalurus_gramineus	Little Grassbird	2	3
Megapodius_reinwardt	Orange-footed Scrubfowl	2	3
Megalurus_timoriensis	Tawny Grassbird	1	1
Melithreptus_affinis	Black-headed Honeyeater	3	1
Meliphaga_albilineata	White-lined Honeyeater	1	1
Melithreptus_albogularis	White-throated Honeyeater	1	3
Melithreptus_brevirostris	Brown-headed Honeyeater	2	3
Melanodryas_cucullata	Hooded Robin	3	3
Meliphaga_gracilis	Graceful Honeyeater	1	3
Melithreptus_gularis	Black-chinned Honeyeater	3	3
Meliphaga_lewinii	Lewin's Honeyeater	3	3
Melithreptus_lunatus	White-naped Honeyeater	3	3
Meliphaga_notata	Yellow-spotted Honeyeater	2	3
Melopsittacus_undulatus	Budgerigar	3	3
Melithreptus_validirostris	Strong-billed Honeyeater	1	3
Melanodryas_vittata	Dusky Robin	2	2
Menura_alberti	Albert's Lyrebird	2	2
Menura_novaehollandiae	Superb Lyrebird	3	3
Merops_ornatus	Rainbow Bee-eater	3	3
Microeca_fascinans	Jacky Winter	1	2
Microeca_flavigaster	Lemon-bellied Flycatcher	3	3
Microeca_griseocephala	Yellow-legged Flycatcher	1	2
Phalacrocorax_melanoleucos	Little Pied Cormorant	3	3
Milvus_migrans	Black Kite	3	3
Mirafra_javanica	Horsfield's Bushlark	2	3
Monarcha_frater	Black-winged Monarch	0	2
Monarcha_melanopsis	Black-faced Monarch	2	3
Myiagra_alecto	Shining Flycatcher	3	3
Myiagra_cyanoleuca	Satin Flycatcher	3	3
Myiagra_inquieta	Restless Flycatcher	1	3
Myiagra_rubecula	Leaden Flycatcher	2	3
Myiagra_ruficollis	Broad-billed Flycatcher	1	2
Myzomela_erythrocephala	Red-headed Honeyeater	3	3
Myzomela_obscura	Dusky Honeyeater	3	3
Myzomela_sanguinolenta	Scarlet Honeyeater	1	3
Nectarinia_jugularis	Olive-backed Sunbird	3	3
Neopsephotus_bourkii	Bourke's Parrot	2	2
Neophema_chrysogaster	Orange-bellied Parrot	0	2
Neophema_chrysostoma	Blue-winged Parrot	3	3
Neophema_elegans	Elegant Parrot	1	3
Neochmia_modesta	Plum-headed Finch	2	2
Neophema_petrophila	Rock Parrot	2	2
Neochmia_phaeton	Crimson Finch	2	3
Neophema_pulchella	Turquoise Parrot	3	1

Neochmia_ruficauda	Star Finch	2	1
Neophema_splendida	Scarlet-chested Parrot	3	3
Neochmia_temporalis	Red-browed Finch	2	3
Nettapus_coromandelianus	Cotton Pygmy-goose	2	3
Nettapus_pulchellus	Green Pygmy-goose	3	3
Ninox_connivens	Barking Owl	3	1
Ninox_boobook	Southern Boobook	3	3
Ninox_rufa	Rufous Owl	3	0
Ninox_strenua	Powerful Owl	3	3
Northiella_haematogaster	Blue Bonnet	3	3
Nycticorax_caledonicus	Nankeen Night-Heron	1	3
Nymphicus_hollandicus	Cockatiel	3	3
Ocyphaps_lophotes	Crested Pigeon	3	3
Oreoica_gutturalis	Crested Bellbird	3	3
Oreoscopus_gutturalis	Fernwren	1	2
Oriolus_flavocinctus	Yellow Oriole	3	3
Oriolus_sagittatus	Olive-backed Oriole	3	3
Origma_solitaria	Rockwarbler	3	1
Orthonyx_spaldingii	Chowchilla	2	2
Orthonyx_temminckii	Australian Logrunner	3	3
Oxyura_australis	Blue-billed Duck	3	3
Pachycephala_inornata	Gilbert's Whistler	3	3
Pachycephala_lanioides	White-breasted Whistler	3	3
Pachycephala_melanura	Mangrove Golden Whistler	2	3
Pachycephala_olivacea	Olive Whistler	3	3
Pachycephala_pectoralis	Golden Whistler	2	3
Pachycephala_rufiventris	Rufous Whistler	3	3
Pachycephala_rufogularis	Red-lored Whistler	1	3
Pachycephala_simplex	Grey Whistler	2	1
Pandion_haliaetus	Eastern Osprey	1	2
Pardalotus_punctatus	Spotted Pardalote	3	3
Pardalotus_quadragintus	Forty-spotted Pardalote	2	2
Pardalotus_rubricatus	Red-browed Pardalote	3	3
Pardalotus_striatus	Striated Pardalote	3	3
Pedionomus_torquatus	Plains-wanderer	3	3
Pelecanus_conspicillatus	Australian Pelican	0	3
Eopsaltria_pulverulenta	Mangrove Robin	3	2
Petrophassa_albipennis	White-quilled Rock-Pigeon	1	2
Hirundo_ariel	Fairy Martin	2	3
Petroica_multicolor	Scarlet Robin	3	3
Petroica_goodenovii	Red-capped Robin	3	3
Hirundo_nigricans	Tree Martin	2	3
Petroica_phoenicea	Flame Robin	3	3
Petroica_rodinogaster	Pink Robin	1	3

Petroica_rosea	Rose Robin	3	3
Petrophassa_rufipennis	Chestnut-quilled Rock-Pigeon	3	3
Pezoporus_wallicus	Ground Parrot	2	2
Phalacrocorax_carbo	Great Cormorant	3	3
Phaps_chalcoptera	Common Bronzewing	3	3
Phaps_elegans	Brush Bronzewing	3	3
Phalacrocorax_fuscescens	Black-faced Cormorant	3	2
Phaps_histrionica	Flock Bronzewing	1	3
Phalacrocorax_sulcirostris	Little Black Cormorant	2	3
Phalacrocorax_varius	Pied Cormorant	3	3
Philemon_argenteiceps	Silver-crowned Friarbird	2	1
Philemon_buceroides	Helmeted Friarbird	3	3
Philemon_citreogularis	Little Friarbird	1	3
Philemon_corniculatus	Noisy Friarbird	1	3
Manucodia_keraudrenii	Trumpet Manucode	1	3
Phylidonyris_niger	White-cheeked Honeyeater	3	2
Phylidonyris_novaehollandiae	New Holland Honeyeater	3	3
Phylidonyris_pyrrhopterus	Crescent Honeyeater	3	3
Pitta_erythrogaster	Red-bellied Pitta	0	3
Pitta_iris	Rainbow Pitta	3	3
Pitta_versicolor	Noisy Pitta	2	1
Platycercus_adscitus	Pale-headed Rosella	3	3
Platycercus_caledonicus	Green Rosella	3	2
Platycercus_elegans	Crimson Rosella	3	3
Platycercus_eximius	Eastern Rosella	3	3
Platalea_flavipes	Yellow-billed Spoonbill	1	1
Platycercus_icterotis	Western Rosella	3	3
Platalea_regia	Royal Spoonbill	2	0
Platycercus_venustus	Northern Rosella	3	3
Plegadis_falcinellus	Glossy Ibis	1	1
Plectorhyncha_lanceolata	Striped Honeyeater	3	3
Podiceps_cristatus	Great Crested Grebe	3	3
Podargus_ocellatus	Marbled Frogmouth	1	2
Podargus_papuensis	Papuan Frogmouth	2	3
Podargus_strigoides	Tawny Frogmouth	3	3
Poephila_acuticauda	Long-tailed Finch	3	3
Poecilodryas_cerviniventris	Buff-sided Robin	2	1
Poephila_cincta	Black-throated Finch	3	3
Poephila_personata	Masked Finch	1	1
Poecilodryas_superciliosa	White-browed Robin	2	2
Polytelis_alexandrae	Princess Parrot	1	3
Polytelis_anthoepus	Regent Parrot	3	2
Poliiocephalus_poliiocephalus	Hoary-headed Grebe	2	3
Polytelis_swainsonii	Superb Parrot	2	3

Pomatostomus_halli	Hall's Babbler	2	2
Pomatostomus_ruficeps	Chestnut-crowned Babbler	2	2
Pomatostomus_superciliosus	White-browed Babbler	3	3
Pomatostomus_temporalis	Grey-crowned Babbler	3	3
Porzana_fluminea	Australian Spotted Crake	3	3
Porphyrio_porphyrio	Purple Swamphen	3	3
Porzana_pusilla	Baillon's Crake	2	3
Porzana_tabuensis	Spotless Crake	3	3
Probosciger_aterimus	Palm Cockatoo	1	2
Psephotus_chrysopterygius	Golden-shouldered Parrot	1	1
Psephotus_dissimilis	Hooded Parrot	1	3
Psephotus_haematonotus	Red-rumped Parrot	3	3
Psephotus_varius	Mulga Parrot	3	3
Psitteuteles_versicolor	Varied Lorikeet	3	3
Psophodes_cristatus	Chirruping Wedgebill	2	1
Psophodes_nigrogularis	Western Whipbird	0	2
Psophodes_occidentalis	Chiming Wedgebill	1	1
Psophodes_olivaceus	Eastern Whipbird	3	3
Chlamydera_cerviniventris	Fawn-breasted Bowerbird	2	1
Ptilinopus_cinctus	Banded Fruit-Dove	3	3
Chlamydera_guttata	Western Bowerbird	3	3
Chlamydera_maculata	Spotted Bowerbird	3	3
Ptiloris_magnificus	Magnificent Riflebird	1	3
Chlamydera_nuchalis	Great Bowerbird	2	3
Ptiloris_paradiseus	Paradise Riflebird	2	2
Ptilinopus_regina	Rose-crowned Fruit-Dove	3	3
Ptilinopus_superbus	Superb Fruit-Dove	2	3
Ptiloris_victoriae	Victoria's Riflebird	3	3
Ptilonorhynchus_violaceus	Satin Bowerbird	3	3
Ptilinopus_magnificus	Wompoo Fruit-Dove	2	3
Phylidonyris_albifrons	White-fronted Honeyeater	3	3
Purpureicephalus_spurius	Red-capped Parrot	3	3
Pycnoptilus_floccosus	Pilotbird	1	1
Pyrrholaemus_brunneus	Redthroat	3	3
Rallina_tricolor	Red-necked Crake	1	0
Ramsayornis_fasciatus	Bar-breasted Honeyeater	1	3
Ramsayornis_modestus	Brown-backed Honeyeater	5	1
Recurvirostra_novaehollandiae	Red-necked Avocet	1	3
Rhipidura_fuliginosa	Grey Fantail	3	3
Rhipidura_leucophrys	Willie Wagtail	3	3
Rhipidura_phasiana	Mangrove Grey Fantail	3	2
Rhipidura_rufifrons	Rufous Fantail	2	3
Rhipidura_rufiventris	Northern Fantail	3	3
Rostratula_australis	Australian Painted Snipe	3	3

Scenopoeetes_dentirostris	Tooth-billed Bowerbird	3	3
Scythrops_novaehollandiae	Channel-billed Cuckoo	2	2
Sericornis_beccarii	Tropical Scrubwren	1	2
Sericulus_chrysocephalus	Regent Bowerbird	6	6
Sericornis_citreogularis	Yellow-throated Scrubwren	3	1
Sericornis_frontalis	White-browed Scrubwren	3	3
Sericornis_humilis	Tasmanian Scrubwren	3	3
Sericornis_keri	Atherton Scrubwren	2	2
Sericornis_magnirostra	Large-billed Scrubwren	3	3
Smicronis_brevirostris	Weebill	3	3
Sphecotheres_vieilloti	Australasian Figbird	3	3
Stagonopleura_bella	Beautiful Firetail	1	3
Stagonopleura_guttata	Diamond Firetail	3	3
Stagonopleura_oculata	Red-eared Firetail	1	2
Sterna_albifrons	Little Tern	2	1
Sterna_nereis	Fairy Tern	2	2
Sterna_striata	White-fronted Tern	0	2
Sterna_sumatrana	Black-naped Tern	0	2
Stiltia_isabella	Australian Pratincole	1	1
Stipiturus_malachurus	Southern Emu-wren	2	3
Stipiturus_mallee	Mallee Emu-wren	3	3
Stictonetta_naevosa	Freckled Duck	3	3
Stipiturus_ruficeps	Rufous-crowned Emu-wren	3	3
Struthidea_cinerea	Apostlebird	3	3
Strepera_fuliginosa	Black Currawong	3	1
Strepera_graculina	Pied Currawong	2	3
Strepera_versicolor	Grey Currawong	3	3
Certhionyx_niger	Black Honeyeater	1	3
Syma_torotoro	Yellow-billed Kingfisher	1	1
Monarcha_trivirgatus	Spectacled Monarch	1	1
Tachybaptus_novaehollandiae	Australasian Grebe	3	3
Tadorna_radjah	Radjah Shelduck	1	1
Tadorna_tadornoides	Australian Shelduck	3	2
Taeniopygia_bichenovii	Double-barred Finch	2	3
Taeniopygia_guttata	Zebra Finch	3	3
Tanysiptera_sylvia	Buff-breasted Paradise-Kingfisher	3	3
Sterna_bengalensis	Lesser Crested Tern	0	1
Sterna_bergii	Crested Tern	1	3
Thinornis_rubicollis	Hooded Plover	3	3
Threskiornis_molucca	Australian White Ibis	2	2
Threskiornis_spinicollis	Straw-necked Ibis	2	3
Todiramphus_chloris	Collared Kingfisher	1	3
Todiramphus_macleayii	Forest Kingfisher	3	3
Todiramphus_pyrrhopygius	Red-backed Kingfisher	3	3

Todiramphus_sanctus	Sacred Kingfisher	3	3
Tregellasia_capito	Pale-yellow Robin	2	2
Tregellasia_leucops	White-faced Robin	2	3
Trichoglossus_chlorolepidotus	Scaly-breasted Lorikeet	3	2
Trichodere_cockerelli	White-streaked Honeyeater	1	2
Trichoglossus_haematodus	Rainbow Lorikeet	3	3
Gallinula_mortierii	Tasmanian Native-hen	3	3
Gallinula_ventralis	Black-tailed Native-hen	2	2
Turnix_castanotus	Chestnut-backed Button-quail	3	3
Turnix_maculosus	Red-backed Button-quail	2	2
Turnix_melanogaster	Black-breasted Button-quail	2	1
Turnix_olivii	Buff-breasted Button-quail	3	1
Turnix_pyrrhorthorax	Red-chested Button-quail	3	3
Turnix_varius	Painted Button-quail	3	3
Turnix_velox	Little Button-quail	1	2
Tyto_alba	Eastern Barn Owl	3	3
Tyto_longimembris	Eastern Grass Owl	2	1
Tyto_novaehollandiae	Masked Owl	3	1
Tyto_tenebricosa	Sooty Owl	3	1
Vanellus_miles	Masked Lapwing	3	3
Vanellus_tricolor	Banded Lapwing	2	3
Xanthotis_flaviventer	Tawny-breasted Honeyeater	1	4
Xanthotis_macleayanus	Macleay's Honeyeater	2	3
Zoothera_heinei	Russet-tailed Thrush	1	2
Zoothera_lunulata	Bassian Thrush	3	3
Zosterops_pallidus	Pale White-eye	2	0
Zosterops_lateralis	Silvereeye	3	3
Zosterops_luteus	Yellow White-eye	1	2

Table A2. **Species-level analyses.** Results from three alternative phylogenetic general linear models assessing the effects of climatic variables (mean annual temperature (°C); total annual precipitation (mm) and vegetation structure on log10-transformed **male dorsal plumage** reflectance values from 551 species of Australian landbirds. Depicted are mean averaged effects and SE values for the explanatory variables across 1000 phylogenies, the minimum and maximum p-values obtained across the 1000 phylogenies (min.p, max.p), the proportion of simulations that obtained a more extreme climatic or vegetation effect than the observed ones (prop.sim) and the 0.025 and 0.975 quantiles of the simulated effect distribution. Also included are the mean and SE value of lambda and the AIC for each model. See text for more details. All variables have been standardized before analyses by subtracting the mean and dividing by the standard deviation.

model	variable	effect	SE	min.p	max.p	prop.sim	0.025 quantile	0.975 quantile
temp+rain+veg	intercept	-0.086	0.490	0.693	0.996	-	-	-
temp+rain+veg	temperature	0.095	0.030	0.000	0.010	0.001	-0.08	0.088
temp+rain+veg	rainfall	-0.182	0.038	0.000	0.000	0.000	-0.097	0.1
temp+rain+veg	vegetation	-0.037	0.052	0.256	0.776	0.144	-0.141	0.142
temp+rain+veg	AIC	1230.290	10.271	-	-	-	-	-
temp+rain+veg	lambda	0.880	0.016	-	-	-	-	-
temp+rain	intercept	-0.080	0.490	0.702	1.000	-	-	-
temp+rain	temperature	0.097	0.030	0.000	0.009	0.001	-0.079	0.088
temp+rain	rainfall	-0.197	0.031	0.000	0.000	0.000	-0.094	0.097
temp+rain	AIC	1228.809	10.288	-	-	-	-	-
temp+rain	lambda	0.880	0.016	-	-	-	-	-
temp+veg	intercept	-0.127	0.499	0.635	0.980	-	-	-
temp+veg	temperature	0.073	0.030	0.002	0.062	0.006	-0.079	0.087
temp+veg	vegetation	-0.180	0.044	0.000	0.000	0.004	-0.133	0.134
temp+veg	AIC	1251.711	10.052	-	-	-	-	-
temp+veg	lambda	0.878	0.016	-	-	-	-	-

Table A3. **Species-level analyses.** Results from three alternative phylogenetic general linear models assessing the effects of climatic variables (mean annual temperature (°C); total annual precipitation (mm) and vegetation structure on log10-transformed **male ventral plumage** reflectance values from 551 species of Australian landbirds. Depicted are mean averaged effects and SE values for the explanatory variables across 1000 phylogenies, the minimum and maximum p-values obtained across the 1000 phylogenies (min.p, max.p), the proportion of simulations that obtained a more extreme climatic or vegetation effect than the observed ones (prop.sim) and the 0.025 and 0.975 quantiles of the simulated effect distribution. Also included are the mean and SE value of lambda and the AIC for each model. See text for more details. All variables have been standardized before analyses by subtracting the mean and dividing by the standard deviation.

model	variable	effect	SE	min.p	max.p	prop.sim	0.025 quantile	0.975 quantile
temp+rain+veg	intercept	-0.290	0.454	0.386	0.717	-	-	-
temp+rain+veg	temperature	0.122	0.036	0.000	0.003	0.001	-0.08	0.088
temp+rain+veg	rainfall	-0.117	0.045	0.004	0.025	0.000	-0.097	0.1
temp+rain+veg	vegetation	-0.044	0.060	0.303	0.691	0.144	-0.141	0.142
temp+rain+veg	AIC	1391.568	6.208	-	-	-	-	-
temp+rain+veg	lambda	0.754	0.028	-	-	-	-	-
temp+rain	intercept	-0.282	0.454	0.397	0.745	-	-	-
temp+rain	temperature	0.123	0.036	0.000	0.002	0.001	-0.079	0.088
temp+rain	rainfall	-0.136	0.037	0.000	0.001	0.000	-0.094	0.097
temp+rain	AIC	1390.106	6.201	-	-	-	-	-
temp+rain	lambda	0.754	0.028	-	-	-	-	-
temp+veg	intercept	-0.316	0.459	0.358	0.655	-	-	-
temp+veg	temperature	0.106	0.036	0.001	0.008	0.006	-0.079	0.087
temp+veg	vegetation	-0.133	0.050	0.003	0.016	0.004	-0.133	0.134
temp+veg	AIC	1396.329	6.275	-	-	-	-	-
temp+veg	lambda	0.757	0.029	-	-	-	-	-

Table A4. **Species-level analyses.** Results from three alternative phylogenetic general linear models assessing the effects of climatic variables (mean annual temperature (°C); total annual precipitation (mm) and vegetation structure on log10-transformed **female ventral plumage** reflectance values from 551 species of Australian landbirds. Depicted are mean averaged effects and SE values for the explanatory variables across 1000 phylogenies, the minimum and maximum p-values obtained across the 1000 phylogenies (min.p, max.p), the proportion of simulations that obtained a more extreme climatic or vegetation effect than the observed ones (prop.sim) and the 0.025 and 0.975 quantiles of the simulated effect distribution. Also included are the mean and SE value of lambda and the AIC for each model. See text for more details. All variables have been standardized before analyses by subtracting the mean and dividing by the standard deviation.

model	variable	effect	SE	min.p	max.p	prop.sim	0.025 quantile	0.975 quantile
temp+rain+veg	intercept	-0.358	0.458	0.317	0.580	-	-	-
temp+rain+veg	temperature	0.138	0.037	0.000	0.001	0.001	-0.08	0.088
temp+rain+veg	rainfall	-0.117	0.046	0.004	0.031	0.000	-0.097	0.1
temp+rain+veg	vegetation	-0.070	0.061	0.119	0.469	0.144	-0.141	0.142
temp+rain+veg	AIC	1408.750	7.288	-	-	-	-	-
temp+rain+veg	lambda	0.748	0.036	-	-	-	-	-
temp+rain	intercept	-0.344	0.457	0.332	0.624	-	-	-
temp+rain	temperature	0.140	0.037	0.000	0.001	0.001	-0.079	0.088
temp+rain	rainfall	-0.147	0.038	0.000	0.000	0.000	-0.094	0.097
temp+rain	AIC	1408.095	7.263	-	-	-	-	-
temp+rain	lambda	0.746	0.036	-	-	-	-	-
temp+veg	intercept	-0.384	0.464	0.293	0.522	-	-	-
temp+veg	temperature	0.122	0.036	0.000	0.002	0.006	-0.079	0.087
temp+veg	vegetation	-0.159	0.050	0.000	0.006	0.004	-0.133	0.134
temp+veg	AIC	1413.241	7.386	-	-	-	-	-
temp+veg	lambda	0.754	0.036	-	-	-	-	-

Table A5. Assemblage-level analyses. Results from two alternative linear models assessing the effects of climatic variables and vegetation on log10 transformed average plumage reflectance for 775 cells (100 x 100 km) across Australia. Depicted are effects and SE for the climatic and vegetation variables and the residual autocorrelation vector, associated t- and p-values, the proportion of 1000 simulated effects sizes that are more extreme than the observed effect (prop.sim) and the 0.025 and 0.975 quantiles (l.95ci, u.95ci) of the simulated effect distributions. AIC values are also provided. All variables have been standardized before analyses by subtracting the mean and dividing by the standard deviation.

	Rainfall and temperature models								Vegetation and temperature models						
	est	SE	t	p	p.sim	l.95 ci	u.95 ci		est	SE	t	p	p.sim	l.95 ci	u.95 ci
Male dorsal AIC =1219								Male dorsal AIC =1208							
intercept	0.00	0.02	0.00	1.000	-	-	-	intercept	0.00	0.02	0.00	1.000	-	-	-
temperature	0.63	0.02	33.14	0.000	0.009	-0.57	0.55	temperature	0.59	0.02	30.28	0.000	0.019	-0.55	0.56
rainfall	-0.14	0.02	-7.27	0.000	0.620	-0.63	0.62	vegetation	-0.21	0.02	-10.80	0.000	0.720	-0.52	0.51
res. autocorr. vec.	0.57	0.02	29.82	0.000	-	-	-	res. autocorr. vec.	0.55	0.02	29.03	0.000	-	-	-
Male ventral AIC =1488								Male ventral AIC = 1493							
intercept	0.00	0.02	0.00	1.000	-	-	-	intercept	0.00	0.02	0.00	1.000	-	-	-
temperature	0.47	0.02	20.82	0.000	0.057	-0.57	0.55	temperature	0.49	0.02	20.94	0.000	0.056	-0.55	0.56
rainfall	0.13	0.02	5.85	0.000	0.396	-0.63	0.62	vegetation	0.07	0.02	2.93	0.003	0.436	-0.52	0.51
res. autocorr. vec.	0.62	0.02	27.48	0.000	-	-	-	res. autocorr. vec.	0.63	0.02	27.59	0.000	-	-	-
Female dorsal AIC = 1086								Female dorsal AIC = 1077							
intercept	0.00	0.02	0.00	1.000	-	-	-	intercept	0.00	0.02	0.00	1.000	-	-	-
temperature	0.70	0.02	39.84	0.000	0.002	-0.57	0.55	temperature	0.66	0.02	37.08	0.000	0.006	-0.55	0.56
rainfall	-0.10	0.02	-5.67	0.000	0.586	-0.63	0.62	vegetation	-0.17	0.02	-9.73	0.000	0.685	-0.52	0.51
res. autocorr. vec.	0.54	0.02	30.74	0.000	-	-	-	res. autocorr. vec.	0.52	0.02	29.99	0.000	-	-	-
Female ventral AIC = 1278								Female ventral AIC =1273							
intercept	0.00	0.02	0.00	1.000	-	-	-	intercept	0.00	0.02	0.00	1.000	-	-	-
temperature	0.65	0.02	32.69	0.000	0.008	-0.57	0.55	temperature	0.61	0.02	30.38	0.000	0.014	-0.55	0.56
rainfall	-0.14	0.02	-6.91	0.000	0.618	-0.63	0.62	vegetation	-0.16	0.02	-7.67	0.000	0.663	-0.52	0.51
res. autocorr. vec.	0.52	0.02	26.40	0.000	-	-	-	res. autocorr. vec.	0.52	0.02	26.20	0.000	-	-	-