

Supplementary material for

Identifying avian indicators of elevation in the Gondwanan rainforests of Australia

Elliot C. Leach^{A,C}, Chris J. Burwell^{A,B}, Darryl N. Jones^A and Roger L. Kitching^A

^AEnvironmental Futures Research Institute, Griffith University, Nathan, Qld 4111, Australia.

^BBiodiversity Program, Queensland Museum, South Brisbane, Qld 4101, Australia.

^CCorresponding author. Email: elliot.leach@griffithuni.edu.au

Supplementary Material Appendix 1: Species Codes

The following are the species codes used in the analysis and in the Supplementary Material in alphabetical order. The taxonomic order and nomenclature follows IOC World Bird Names, version 8.1 (see <http://goo.gl/QqvwaU>). Supplementary Material Appendix 5 lists IOC names alongside names from Christidis and Boles (2008).

ABRT	AUSTRALIAN BRUSHTURKEY (<i>Alectura lathami</i>)
ALLY	ALBERT'S LYREBIRD (<i>Menura alberti</i>)
AULO	AUSTRALIAN LOGRUNNER (<i>Orthonyx temminckii</i>)
BATH	BASSIAN THRUSH (<i>Zoothera lunulata</i>)
BFCS	BLACK-FACED CUCKOO-SHRIKE (<i>Coracina novaehollandiae</i>)
BFMO	BLACK-FACED MONARCH (<i>Monarcha melanopsis</i>)
BRCD	BROWN CUCKOO-DOVE (<i>Macropygia phasianella</i>)
BRCU	BRUSH CUCKOO (<i>Cacomantis variolosus</i>)
BRGE	BROWN GERYGONE (<i>Gerygone mouki</i>)
BRTB	BROWN THORNBILL (<i>Acanthiza pusilla</i>)
CROS	CRIMSON ROSELLA (<i>Platycercus elegans</i>)
CSTI	CRESTED SHRIKE-TIT (<i>Falcunculus frontatus</i>)
EMDO	COMMON EMERALD DOVE (<i>Chalcophaps longirostris</i>)
ESPI	EASTERN SPINEBILL (<i>Acanthorhynchus tenuirostris</i>)
EWHI	EASTERN WHIPBIRD (<i>Psophodes olivaceus</i>)
EYRO	EASTERN YELLOW ROBIN (<i>Eopsaltria australis</i>)

FTCU	FAN-TAILED CUCKOO (<i>Cacomantis flabelliformis</i>)
GOWH	AUSTRALIAN GOLDEN WHISTLER (<i>Pachycephala pectoralis</i>)
GRCA	GREEN CATBIRD (<i>Ailuroedus crassirostris</i>)
GRFA	GREY FANTAIL (<i>Rhipidura albiscapa</i>)
GRST	GREY SHRIKE-THRUSH (<i>Colluricincla harmonica</i>)
KIPA	KING PARROT (<i>Alisterus scapularis</i>)
LBSW	LARGE-BILLED SCRUBWREN (<i>Sericornis magnirostra</i>)
LEHE	LEWIN'S HONEYEATER (<i>Meliphaga lewinii</i>)
LKOO	LAUGHING KOOKABURRA (<i>Dacelo novaeguineae</i>)
LSTH	LITTLE SHRIKE-THRUSH (<i>Colluricincla megarhyncha</i>)
MSTB	MISTLETOEBIRD (<i>Dicaeum hirundinaceum</i>)
NOPI	NOISY PITTA (<i>Pitta versicolor</i>)
OBOR	OLIVE-BACKED ORIOLE (<i>Oriolus sagittatus</i>)
PCUR	PIED CURRAWONG (<i>Strepera graculina</i>)
PRIF	PARADISE RIFLEBIRD (<i>Ptiloris paradiseus</i>)
PYRO	PALE-YELLOW ROBIN (<i>Tregellasia capito</i>)
RALO	RAINBOW LORIKEET (<i>Trichoglossus moluccanus</i>)
RCFD	ROSE-CROWNED FRUIT-DOVE (<i>Ptilinopus regina</i>)
RORO	ROSE ROBIN (<i>Petroica rosea</i>)
RTTH	RUSSET-TAILED THRUSH (<i>Zoothera heinei</i>)
RUFA	RUFOUS FANTAIL (<i>Rhipidura rufifrons</i>)
SABB	SATIN BOWERBIRD (<i>Ptilonorhynchus violaceus</i>)
SBCU	SHINING-BRONZE CUCKOO (<i>Chrysococcyx lucidus</i>)
SCCO	SULPHUR-CRESTED COCKATOOS (<i>Cacatua galerita</i>)
SCHE	SCARLET HONEYEATER (<i>Myzomela sanguinolenta</i>)
SILV	SILVEREYE (<i>Zosterops lateralis</i>)
SPDR	SPANGLED DRONGO (<i>Dicrurus bracteatus</i>)
SPMO	SPECTACLED MONARCH (<i>Sympasiachrus trivirgatus</i>)
SPPA	SPOTTED PARDALOTE (<i>Pardalotus punctatus</i>)
STPA	STRIATED PARDALOTE (<i>Pardalotus striatus</i>)
STTB	STRIATED THORNBILL (<i>Acanthiza lineata</i>)

SUFD SUPERB FRUIT-DOVE (*Ptilinopus superbus*)
THSP THRUSH SPECIES (SP.) (*Zoothera sp.*)
TOPI TOPKNOT PIGEON (*Lopholaimus antarcticus*)
VART VARIED TRILLER (*Lalage leucomela*)
WBSW WHITE-BROWED SCRUBWREN (*Sericornis frontalis*)
WHPI WHITE-HEADED PIGEON (*Columba leucomela*)
WOFD WOMPOO FRUIT-DOVE (*Ptilinopus magnificus*)
WOPI WONGA PIGEON (*Leucosarcia melanoleuca*)
WTRE WHITE-THROATED TREECREEPER (*Cormobates leucophaea*)
YFHE YELLOW-FACED HONEYEATER (*Caligavis chrysops*)
YTBC YELLOW-TAILED BLACK-COCKATOO (*Calyptorhynchus funereus*)
YTSW YELLOW-THROATED SCRUBWREN (*Sericornis citreogularis*)

Supplementary Material Appendix 2: ARUs

Here we present the indicators significantly associated with each elevation or elevational range using the ‘total’ ARU dataset. Species codes are available in Appendix 1. The total number of species includes all individual species as well as all possible pairwise combinations of species available for analysis. The elevation or elevational range in metres above sea level (a.s.l.) is then shown along with the number of associated indicators (#sps.) that met our criteria – an IndVal of >85%. All analysis was performed using the *indicspecies* package in R. For more information, such as the code used to run these analyses, please contact elliott.leach@griffithuni.edu.au.

Total number of species: 1770

List of indicators associated with each elevation or elevational range:

300m a. s. l.	#sps.	117
IndVal	p. value	
SCHE+SPPA	1. 000	0. 002 **
SCHE+YFHE	0. 970	0. 002 **
SPMO+YFHE	0. 961	0. 002 **
SCHE+WTR	0. 958	0. 003 **
GOWH+SCHE	0. 950	0. 003 **
CROS+SCHE	0. 949	0. 005 **
SPPA+YFHE	0. 947	0. 003 **
RALO+YFHE	0. 943	0. 002 **
SCHE+SPMO	0. 938	0. 003 **
LK00+SCHE	0. 937	0. 002 **
RALO+SPPA	0. 935	0. 007 **
RALO+SCHE	0. 934	0. 003 **
LBSW+SCHE	0. 917	0. 005 **
SCHE	0. 916	0. 005 **
EWHI+SCHE	0. 916	0. 005 **
GRST+SCHE	0. 916	0. 005 **
LEHE+SCHE	0. 916	0. 005 **
AULO+SCHE	0. 915	0. 005 **
SCHE+WBSW	0. 910	0. 005 **
SBCU+SCHE	0. 909	0. 006 **
EYRO+SCHE	0. 907	0. 005 **
WTR+EYFHE	0. 907	0. 028 *
BRCD+SCHE	0. 904	0. 005 **
SPMO+SPPA	0. 900	0. 006 **
RTTH+SCHE	0. 897	0. 017 *
YFHE	0. 895	0. 032 *
LEHE+YFHE	0. 895	0. 032 *
BRGE+SCHE	0. 894	0. 005 **
KIPA+SPMO	0. 894	0. 007 **
SILV+SPMO	0. 894	0. 004 **
KIPA+SCHE	0. 892	0. 005 **
LK00+SPMO	0. 891	0. 007 **
AULO+YFHE	0. 891	0. 032 *
EWHI+YFHE	0. 891	0. 032 *
GRST+YFHE	0. 890	0. 032 *
KIPA+RALO	0. 889	0. 010 **
RALO+SILV	0. 889	0. 008 **
GRFA+SCHE	0. 887	0. 005 **
PCUR+SCHE	0. 886	0. 005 **
BFMO+SCHE	0. 886	0. 004 **
WBSW+YFHE	0. 881	0. 034 *
SILV+SPPA	0. 879	0. 003 **

BFMO+RALO	0. 879	0. 009 **
RALO+WOFD	0. 876	0. 009 **
RUFA+SCHE	0. 874	0. 007 **
EYRO+YFHE	0. 872	0. 034 *
BRCD+YFHE	0. 872	0. 034 *
RALO	0. 869	0. 011 *
AULO+RALO	0. 869	0. 011 *
BRCD+RALO	0. 869	0. 011 *
BRGE+RALO	0. 869	0. 011 *
BRTB+RALO	0. 869	0. 011 *
EWHI+RALO	0. 869	0. 011 *
EYRO+RALO	0. 869	0. 011 *
GOWH+RALO	0. 869	0. 011 *
GRFA+RALO	0. 869	0. 011 *
GRST+RALO	0. 869	0. 011 *
LBSW+RALO	0. 869	0. 011 *
LEHE+RALO	0. 869	0. 011 *
PCUR+RALO	0. 869	0. 011 *
RALO+WBSW	0. 869	0. 011 *
RALO+WTR	0. 869	0. 011 *
STPA	0. 866	0. 020 *
AULO+STPA	0. 866	0. 020 *
BFMO+STPA	0. 866	0. 020 *
BRCD+STPA	0. 866	0. 020 *
BRGE+STPA	0. 866	0. 020 *
BRTB+STPA	0. 866	0. 020 *
CROS+STPA	0. 866	0. 020 *
ESPI+STPA	0. 866	0. 020 *
EWHI+STPA	0. 866	0. 020 *
EYRO+STPA	0. 866	0. 020 *
GOWH+STPA	0. 866	0. 020 *
GRCA+STPA	0. 866	0. 020 *
GRFA+STPA	0. 866	0. 020 *
GRST+STPA	0. 866	0. 020 *
KIPA+STPA	0. 866	0. 020 *
LBSW+STPA	0. 866	0. 020 *
LEHE+STPA	0. 866	0. 020 *
LK00+RALO	0. 866	0. 006 **
LK00+STPA	0. 866	0. 020 *
PCUR+STPA	0. 866	0. 020 *
RALO+STPA	0. 866	0. 020 *
RCFD+STPA	0. 866	0. 020 *
RTTH+STPA	0. 866	0. 020 *
RUFA+STPA	0. 866	0. 020 *
SBCU+STPA	0. 866	0. 020 *
SCHE+STPA	0. 866	0. 020 *
SILV+STPA	0. 866	0. 020 *
SPMO+STPA	0. 866	0. 020 *
SPPA+STPA	0. 866	0. 020 *

STPA+WBSW	0.866	0.020	*	GRCA+SCCO	0.866	0.016	*
STPA+WOFD	0.866	0.020	*	GRCA+SPMO	0.866	0.016	*
STPA+WTRE	0.866	0.020	*	GRFA+SCCO	0.866	0.016	*
STPA+YFHE	0.866	0.020	*	GRFA+SPMO	0.866	0.014	*
GOWH+YFHE	0.863	0.039	*	GRST+SCCO	0.866	0.016	*
BFMO+YFHE	0.861	0.024	*	GRST+SPMO	0.866	0.014	*
ESPI+SCHE	0.861	0.015	*	KI PA+SCCO	0.866	0.014	*
RALO+SBCU	0.859	0.012	*	LBSW+SCCO	0.866	0.016	*
BFMO+SPPA	0.857	0.007	**	LBSW+SPMO	0.866	0.014	*
GRFA+YFHE	0.854	0.039	*	LEHE+SCCO	0.866	0.016	*
SPPA	0.853	0.009	**	LEHE+SPMO	0.866	0.014	*
AULO+SPPA	0.853	0.009	**	MSTB+SCCO	0.866	0.012	*
BRCD+SPPA	0.853	0.009	**	PCUR+SCCO	0.866	0.016	*
BRGE+SPPA	0.853	0.009	**	PCUR+SPMO	0.866	0.014	*
BRTB+SPPA	0.853	0.009	**	PYRO+SCCO	0.866	0.016	*
EWHI+SPPA	0.853	0.009	**	RALO+SPMO	0.866	0.017	*
EYRO+SPPA	0.853	0.009	**	RCFD+SCCO	0.866	0.016	*
GOWH+SPPA	0.853	0.009	**	RCFD+SPMO	0.866	0.020	*
GRFA+SPPA	0.853	0.009	**	RTTH+SCCO	0.866	0.016	*
GRST+SPPA	0.853	0.009	**	RTTH+SPMO	0.866	0.017	*
LBSW+SPPA	0.853	0.009	**	RUFA+SCCO	0.866	0.016	*
LEHE+SPPA	0.853	0.009	**	RUFA+SPMO	0.866	0.013	*
PCUR+SPPA	0.853	0.009	**	SBCU+SCCO	0.866	0.014	*
SPPA+WBSW	0.853	0.009	**	SBCU+SPMO	0.866	0.016	*
SPPA+WTRE	0.853	0.009	**	SCCO+SILV	0.866	0.017	*
RALO+RUFA	0.851	0.010	**	SCCO+WBSW	0.866	0.016	*
300- 500m a. s. l.		#sps.	75	SCCO+WOFD	0.866	0.016	*
	IndVal	p. val ue		SCCO+WTRE	0.866	0.016	*
YTBC	0.867	0.019	*	SCCO+YTSW	0.866	0.016	*
AULO+YTBC	0.867	0.019	*	SPMO+WBSW	0.866	0.014	*
BRCD+YTBC	0.867	0.019	*	SPMO+WOFD	0.866	0.014	*
EWHI+YTBC	0.867	0.019	*	SPMO+WTRE	0.866	0.014	*
EYRO+YTBC	0.867	0.019	*	KI PA+YTBC	0.864	0.022	*
GOWH+YTBC	0.867	0.019	*	BRTB+YTBC	0.863	0.019	*
GRFA+YTBC	0.867	0.019	*	SILV+YTBC	0.863	0.035	*
GRST+YTBC	0.867	0.019	*	RCFD+SCHE	0.861	0.012	*
LEHE+YTBC	0.867	0.019	*	BRGE+YTBC	0.860	0.019	*
PCUR+YTBC	0.867	0.019	*	SCHE+SILV	0.858	0.012	*
WBSW+YTBC	0.867	0.019	*	BRTB+SCHE	0.858	0.010	**
WHPI+YTBC	0.867	0.019	*	SCHE+WOFD	0.857	0.010	**
WTRE+YTBC	0.867	0.019	*	GRCA+SCHE	0.855	0.013	*
SCCO	0.866	0.016	*	RALO+RCFD	0.853	0.013	*
SPMO	0.866	0.014	*	500- 700m a. s. l.	#sps.	2	
AULO+SCCO	0.866	0.016	*	IndVal	p. val ue		
AULO+SPMO	0.866	0.014	*	ALLY+WOFD	0.937	0.001	***
BFMO+SCCO	0.866	0.016	*	ALLY+RCFD	0.926	0.029	*
BFMO+SPMO	0.866	0.014	*	900- 1100m a. s. l.	#sps.	27	
BRCD+SCCO	0.866	0.016	*	IndVal	p. val ue		
BRCD+SPMO	0.866	0.014	*	BATH	0.953	0.004	**
BRGE+SCCO	0.866	0.016	*	ALLY+BATH	0.953	0.004	**
BRGE+SPMO	0.866	0.014	*	AULO+BATH	0.953	0.004	**
BRTB+SCCO	0.866	0.016	*	BATH+BRGE	0.953	0.004	**
BRTB+SPMO	0.866	0.014	*	BATH+BRTB	0.953	0.004	**
ESPI+SCCO	0.866	0.014	*	BATH+EWHI	0.953	0.004	**
ESPI+SPMO	0.866	0.016	*	BATH+EYRO	0.953	0.004	**
EWHI+SCCO	0.866	0.016	*	BATH+GOWH	0.953	0.004	**
EWHI+SPMO	0.866	0.014	*	BATH+LEHE	0.953	0.004	**
EYRO+SCCO	0.866	0.016	*	BATH+YTSW	0.953	0.004	**
EYRO+SPMO	0.866	0.014	*				
GOWH+SCCO	0.866	0.016	*				
GOWH+SPMO	0.866	0.014	*				

BATH+ESPI	0.952	0.004	**	RORO+WOFD	0.851	0.037	*
BATH+GRST	0.952	0.004	**				
BATH+GRFA	0.951	0.004	**				
BATH+BRCD	0.951	0.004	**	700- 1100m	a. s. l.	#sps.	3
BATH+WBSW	0.951	0.004	**		IndVal	p. val ue	
BATH+LBSW	0.946	0.008	**	CROS+WOPI	0.921	0.028	*
BATH+RORO	0.945	0.010	**	CROS+RORO	0.898	0.034	*
BATH+WTRE	0.943	0.008	**	BATH+CROS	0.893	0.018	*
BATH+KI PA	0.943	0.008	**				
BATH+PCUR	0.936	0.010	**				
BATH+GRCA	0.932	0.010	**	Signif. codes: 0 ‘***’ 0.001 ‘**’			
BATH+SILV	0.931	0.012	*	0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1			
BATH+WHPI	0.921	0.012	*				
BATH+SABB	0.919	0.013	*				
BATH+RUFA	0.916	0.014	*				
BATH+WOPI	0.908	0.010	**				
BATH+NOPI	0.901	0.048	*				
300- 700m	a. s. l.	#sps.	36				
		IndVal					
BFMO+WOFD	0.992	0.002	**				
RCFD+WOFD	0.991	0.002	**				
RTTH+WOFD	0.982	0.002	**				
WOFD	0.980	0.002	**				
BRGE+WOFD	0.980	0.002	**				
EWHI+WOFD	0.980	0.002	**				
GRST+WOFD	0.980	0.002	**				
LEHE+WOFD	0.980	0.002	**				
AULO+WOFD	0.979	0.002	**				
BRCD+WOFD	0.979	0.002	**				
RUFA+WOFD	0.978	0.003	**				
GOWH+WOFD	0.978	0.003	**				
GRFA+WOFD	0.978	0.002	**				
EYRO+WOFD	0.977	0.002	**				
GRCA+WOFD	0.977	0.002	**				
WOFD+WTRE	0.976	0.003	**				
BRTB+WOFD	0.975	0.002	**				
LBSW+WOFD	0.975	0.002	**				
WBSW+WOFD	0.974	0.002	**				
PCUR+WOFD	0.972	0.002	**				
RCFD+RTTH	0.971	0.003	**				
KI PA+WOFD	0.969	0.002	**				
BFMO+RTTH	0.967	0.003	**				
PYRO+WOFD	0.949	0.002	**				
NOPI+WOFD	0.939	0.005	**				
WOFD+YTSW	0.936	0.007	**				
PYRO+RTTH	0.922	0.027	*				
MSTB+RTTH	0.915	0.028	*				
MSTB+RCFD	0.907	0.039	*				
FTCU+WOFD	0.866	0.025	*				
RTTH+YTBC	0.866	0.017	*				
WOFD+YTBC	0.866	0.016	*				
BFMO+FTCU	0.854	0.027	*				
FTCU+RCFD	0.853	0.020	*				
LBSW+YTBC	0.851	0.031	*				
GRCA+YTBC	0.850	0.031	*				
500- 900m	a. s. l.	#sps.	2				
		IndVal					
ALLY+RTTH	0.911	0.018	*				

Supplementary Material Appendix 3: Point Counts

Here we present the indicators significantly associated with each elevation or elevational range using the ‘total’ point counts dataset. Species codes are available in Appendix 1. The total number of species includes all individual species as well as all possible pairwise combinations of species available for analysis. The elevation or elevational range in metres above sea level (a.s.l.) is then shown along with the number of associated indicators (#sps.) that met our criteria – an IndVal of >85%. All analysis was performed using the *indicspecies* package in R. For more information, such as the code used to run these analyses, please contact elliot.leach@griffithuni.edu.au.

Total number of species: 2556

List of indicators associated with each elevation or elevational range:

300m a. s. l	#sps.	4
IndVal	p. val ue	
SCHE+SPPA	1. 000	0. 002 **
EWHI+SCHE	0. 933	0. 002 **
PCUR+SCHE	0. 882	0. 003 **
PRI F+SCHE	0. 877	0. 005 **

900m a. s. l	#sps.	25
IndVal	p. val ue	
THSP	0. 866	0. 022 *
ALLY+THSP	0. 866	0. 022 *
AULO+THSP	0. 866	0. 022 *
BRCD+THSP	0. 866	0. 022 *
BRGE+THSP	0. 866	0. 022 *
BRTB+THSP	0. 866	0. 022 *
ESPI+THSP	0. 866	0. 022 *
EWHI+THSP	0. 866	0. 022 *
EYRO+THSP	0. 866	0. 022 *
GOWH+THSP	0. 866	0. 022 *
GRCA+THSP	0. 866	0. 022 *
GRFA+THSP	0. 866	0. 022 *
GRST+THSP	0. 866	0. 022 *
KI PA+THSP	0. 866	0. 022 *
LEHE+THSP	0. 866	0. 022 *
PCUR+THSP	0. 866	0. 022 *
RORO+THSP	0. 866	0. 022 *
RUFA+THSP	0. 866	0. 022 *
SABB+THSP	0. 866	0. 022 *
SBCU+THSP	0. 866	0. 022 *
SILV+THSP	0. 866	0. 022 *
THSP+WBSW	0. 866	0. 022 *
THSP+WHPI	0. 866	0. 022 *
THSP+WTRE	0. 866	0. 022 *
THSP+YTSW	0. 866	0. 022 *

1100m a. s. l	#sps.	3
IndVal	p. val ue	
BATH+WOP	0. 935	0. 003 **
BATH+NOPI	0. 913	0. 004 **
BATH+RORO	0. 882	0. 004 **

300- 500m a. s. l	#sps.	54
IndVal	p. val ue	
SCHE	0. 935	0. 002 **
SPMO	0. 935	0. 001 ***
AULO+SCHE	0. 935	0. 002 **
AULO+SPMO	0. 935	0. 001 ***
BFMO+SCHE	0. 935	0. 002 **
BFMO+SPMO	0. 935	0. 001 ***
BRCD+SCHE	0. 935	0. 002 **
BRCD+SPMO	0. 935	0. 001 ***
BRGE+SCHE	0. 935	0. 002 **
BRGE+SPMO	0. 935	0. 001 ***
BRTB+SCHE	0. 935	0. 002 **
BRTB+SPMO	0. 935	0. 001 ***
EYRO+SCHE	0. 935	0. 002 **
EYRO+SPMO	0. 935	0. 001 ***
GOWH+SCHE	0. 935	0. 002 **
GOWH+SPMO	0. 935	0. 001 ***
GRFA+SCHE	0. 935	0. 002 **
GRFA+SPMO	0. 935	0. 001 ***
GRST+SCHE	0. 935	0. 002 **
GRST+SPMO	0. 935	0. 001 ***
LEHE+SCHE	0. 935	0. 002 **
LEHE+SPMO	0. 935	0. 001 ***
MSTB+SCHE	0. 935	0. 002 **
MSTB+SPMO	0. 935	0. 001 ***
NOPI+SPMO	0. 935	0. 001 ***
PYRO+SPMO	0. 935	0. 001 ***
RCFD+SCHE	0. 935	0. 002 **
RCFD+SPMO	0. 935	0. 001 ***
RUFA+SCHE	0. 935	0. 002 **
RUFA+SPMO	0. 935	0. 001 ***
SCHE+SILV	0. 935	0. 002 **
SCHE+WBSW	0. 935	0. 002 **
SCHE+WOFD	0. 935	0. 002 **
SCHE+WTRE	0. 935	0. 002 **
SILV+SPMO	0. 935	0. 001 ***
SPMO+WBSW	0. 935	0. 001 ***
SPMO+WOFD	0. 935	0. 001 ***
SPMO+WTRE	0. 935	0. 001 ***
SPMO+YTSW	0. 935	0. 001 ***
RCFD+RUFA	0. 906	0. 012 *
RUFA+WOFD	0. 884	0. 025 *
EWHI+SPMO	0. 866	0. 014 *
GRCA+SPMO	0. 866	0. 013 *
KI PA+SCHE	0. 866	0. 006 **
KI PA+SPMO	0. 866	0. 008 **
LBSW+SCHE	0. 866	0. 007 **

LBSW+SPMO	0.866	0.015	*	AULO+RCFD	0.953	0.004	**
NOPI+SCHE	0.866	0.009	**	BRCD+RCFD	0.953	0.004	**
PCUR+SPMO	0.866	0.013	*	EYRO+WOFD	0.953	0.002	**
PRI F+SPMO	0.866	0.010	**	RCFD+WTR	0.953	0.004	**
PYR0+SCHE	0.866	0.011	*	BRTB+RCFD	0.952	0.005	**
RTTH+SPMO	0.866	0.005	**	GRST+WOFD	0.952	0.001	***
SCHE+SPMO	0.866	0.011	*	RCFD+SILV	0.951	0.005	**
SCHE+YTSW	0.866	0.010	**	MSTB+WOFD	0.947	0.002	**
500- 700m a. s. l	#sps. 2			EYRO+RCFD	0.946	0.006	**
IndVal	p. val ue			GRST+RCFD	0.946	0.004	**
GRCA+RCFD	0.935	0.003	**	PCUR+WOFD	0.943	0.001	***
GRCA+WOFD	0.927	0.002	**	PRI F+RCFD	0.941	0.003	**
900- 1100m a. s. l	#sps. 22			PRI F+WOFD	0.930	0.005	**
IndVal	p. val ue			PCUR+PRI F	0.926	0.007	**
ALLY+RORO	0.907	0.004	**	LBSW+WOFD	0.925	0.007	**
RORO+SBCU	0.907	0.006	**	EWHI +WOFD	0.924	0.004	**
BATH	0.866	0.010	**	BFMO+WOFD	0.921	0.003	**
ALLY+BATH	0.866	0.010	**	WOFD+YTSW	0.921	0.005	**
AULO+BATH	0.866	0.010	**	KI PA+RCFD	0.913	0.009	**
BATH+BRCD	0.866	0.010	**	EWHI +RCFD	0.912	0.022	*
BATH+BRGE	0.866	0.010	**	MSTB+PRI F	0.908	0.022	*
BATH+BRTB	0.866	0.010	**	RCFD+YTSW	0.908	0.017	*
BATH+ESPI	0.866	0.010	**	WBSW+WOFD	0.906	0.018	*
BATH+EWHI	0.866	0.010	**	KI PA+WOFD	0.904	0.007	**
BATH+EYRO	0.866	0.010	**	PYR0+WOFD	0.894	0.013	*
BATH+GOWH	0.866	0.010	**	PYR0+RCFD	0.892	0.018	*
BATH+GRFA	0.866	0.010	**	500- 900m a. s. l	#sps. 4		
BATH+GRST	0.866	0.010	**	IndVal	p. val ue		
BATH+KIPA	0.866	0.010	**	GRCA	0.953	0.023	*
BATH+LEHE	0.866	0.010	**	BRGE+GRCA	0.953	0.023	*
BATH+RUFA	0.866	0.010	**	GRCA+LEHE	0.953	0.023	*
BATH+SBCU	0.866	0.010	**	GRCA+LBSW	0.910	0.025	*
BATH+SILV	0.866	0.010	**	700- 1100m a. s. l	#sps. 4		
BATH+WBSW	0.866	0.010	**	IndVal	p. val ue		
BATH+WTR	0.866	0.011	*	ALLY+ESPI	0.898	0.036	*
BATH+YTSW	0.866	0.010	**	EWHI +RORO	0.890	0.016	*
300- 700m a. s. l	#sps. 45			ESPI+RORO	0.866	0.030	*
IndVal	p. val ue			RORO+SABB	0.866	0.018	*
RCFD+WOFD	1.000	0.001	***	Sig nif. codes: 0 ‘***’ 0.001 ‘**’			
MSTB+RCFD	0.984	0.002	**	0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1			
WOFD+WTR	0.969	0.001	***				
WOFD	0.968	0.001	***				
BRGE+WOFD	0.968	0.001	***				
LEHE+WOFD	0.968	0.001	***				
GRFA+WOFD	0.966	0.001	***				
GOWH+WOFD	0.965	0.001	***				
AULO+WOFD	0.962	0.001	***				
SILV+WOFD	0.962	0.001	***				
BRCD+WOFD	0.960	0.001	***				
GRFA+RCFD	0.959	0.002	**				
BRTB+WOFD	0.958	0.001	***				
RCFD	0.956	0.004	**				
LEHE+RCFD	0.956	0.004	**				
BRGE+RCFD	0.955	0.004	**				
GOWH+RCFD	0.955	0.004	**				

Supplementary Material Appendix 4: Seasonal changes in indicators

Here we present the indicators significantly associated with each elevation or elevational range using the ‘seasonal’ ARU and point counts datasets. Species codes are available in Appendix 1. The total number of species includes all individual species as well as all possible pairwise combinations of species available for analysis in that season. The elevation or elevational range in metres above sea level (a.s.l.) is then shown along with the number of associated indicators (#sps.) that met our criteria – an IndVal of >85%. All analysis was performed using the *indicspecies* package in R. For more information, such as the code used to run these analyses, please contact elliott.leach@griffithuni.edu.au.

ARUs

Spring

Total number of species: 1770

List of indicators associated with each elevation or elevational range:

500- 900m a. s. l.	#sps.	22
IndVal	p. value	
BFMO+RCFD	1. 000	0. 046 *
BFMO+WOFD	0. 993	0. 046 *
RCFD	0. 982	0. 023 *
AULO+RCFD	0. 982	0. 023 *
BRCD+RCFD	0. 982	0. 023 *
BRGE+RCFD	0. 982	0. 023 *
EWHI+RCFD	0. 982	0. 023 *
EYRO+RCFD	0. 982	0. 023 *
GOWH+RCFD	0. 982	0. 023 *
GRFA+RCFD	0. 982	0. 023 *
GRST+RCFD	0. 982	0. 023 *
LEHE+RCFD	0. 982	0. 023 *
RCFD+WOFD	0. 982	0. 023 *
RCFD+WHPI	0. 981	0. 018 *
LBSW+RCFD	0. 981	0. 046 *
RCFD+RUFA	0. 981	0. 046 *
RCFD+WTRE	0. 979	0. 018 *
PCUR+RCFD	0. 976	0. 046 *
BRTB+RCFD	0. 976	0. 046 *
KIPA+RCFD	0. 972	0. 046 *
PRI F+RCFD	0. 972	0. 046 *
RCFD+WBSW	0. 971	0. 046 *

Summer

Total number of species: 1770

List of indicators associated with each elevation or elevational range:

500- 700m a. s. l.	#sps.	1
IndVal	p. value	
WHPI+WOFD	0. 98	0. 033 *

300- 700m a. s. l.	#sps.	3
IndVal	p. value	
RCFD+YTSW	0. 993	0. 044 *
PRI F+SILV	0. 983	0. 043 *
PYRO+RUFA	0. 978	0. 045 *

500- 900m a. s. l.	#sps.	1
IndVal	p. value	
WBSW+WOFD	0. 978	0. 027 *

Autumn

Total number of species: 1770

List of indicators associated with each elevation or elevational range:

500- 700m a. s. l.	#sps.	4
Indval	p. value	
ALLY+WOFD	1	0. 046 *
PRI F+WOFD	1	0. 046 *
PYRO+WOFD	1	0. 046 *
WOFD+YTSW	1	0. 046 *

Winter

Total number of species: 1770

List of indicators associated with each elevation or elevational range:

500- 700m a. s. l.	#sps.	30
IndVal	p. value	
THSP	1. 000	0. 044 *
ALLY+THSP	1. 000	0. 044 *
AULO+THSP	1. 000	0. 044 *
BRCD+THSP	1. 000	0. 044 *
BRGE+THSP	1. 000	0. 044 *
BRTB+THSP	1. 000	0. 044 *
CSTI +PRI F	1. 000	0. 044 *
CSTI +THSP	1. 000	0. 044 *
ESPI +THSP	1. 000	0. 044 *
EWHI +THSP	1. 000	0. 044 *
EYRO+THSP	1. 000	0. 044 *

GOWH+THSP	1. 000	0. 044	*
GRCA+THSP	1. 000	0. 044	*
GRFA+THSP	1. 000	0. 044	*
GRST+THSP	1. 000	0. 044	*
LBSW+THSP	1. 000	0. 044	*
LEHE+THSP	1. 000	0. 044	*
LKOO+THSP	1. 000	0. 044	*
MSTB+THSP	1. 000	0. 044	*
PCUR+THSP	1. 000	0. 044	*
PRI F+THSP	1. 000	0. 044	*
PYRO+THSP	1. 000	0. 044	*
RTTH+THSP	1. 000	0. 044	*
SABB+THSP	1. 000	0. 044	*
THSP+WBSW	1. 000	0. 044	*
THSP+WTRE	1. 000	0. 044	*
THSP+YTSW	1. 000	0. 044	*
GRCA+LKOO	0. 965	0. 044	*
LKOO+SABB	0. 965	0. 044	*
CSTI+LKOO	0. 943	0. 044	*

Signif. codes: 0 ‘***’ 0.001 ‘**’
0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Point Counts

Spring

Total number of species: 1596

List of indicators associated with each elevation or elevational range:

500m a. s. l		#sps.	1
	IndVal	p. value	
GRCA+SPMO		0. 866	0. 015 *
1100m a. s. l		#sps.	16
	IndVal	p. value	
BRTB+RORO	1. 000	0. 003	**
EYRO+RORO	1. 000	0. 003	**
GRST+RORO	1. 000	0. 003	**
RORO	0. 894	0. 011	*
BRGE+RORO	0. 894	0. 011	*
EWHI+RORO	0. 894	0. 011	*
GOWH+RORO	0. 894	0. 011	*
LEHE+RORO	0. 894	0. 011	*
RORO+YTSW	0. 894	0. 011	*
AULO+RORO	0. 866	0. 022	*
CROS+RORO	0. 866	0. 021	*
GRST+WOPA	0. 866	0. 017	*
NOPI+RORO	0. 866	0. 022	*
RORO+SBCU	0. 866	0. 021	*
RORO+SILV	0. 866	0. 016	*
RORO+WOPA	0. 866	0. 017	*
300- 500m a. s. l		#sps.	3
	IndVal	p. value	
SPMO	0. 866	0. 019	*
GOWH+SPMO	0. 866	0. 013	*

LEHE+SPMO	0. 866	0. 019	*
500- 700m a. s. l		#sps.	3
	IndVal	p. value	
GRCA+PRI F	0. 892	0. 007	**
GRCA	0. 891	0. 009	**
GRCA+LBSW	0. 866	0. 019	*
700- 1100m a. s. l		#sps.	2
	IndVal	p. value	
BRTB+YTSW	0. 877	0. 027	*
EWHI+YTSW	0. 868	0. 042	*

Summer

Total number of species: 1378

List of indicators associated with each elevation or elevational range:

300m a. s. l		#sps.	10
	IndVal	p. value	
SCHE	0. 935	0. 001	***
BRCD+SCHE	0. 935	0. 001	***
BRGE+SCHE	0. 935	0. 001	***
LEHE+SCHE	0. 935	0. 001	***
RCFD+SCHE	0. 935	0. 001	***
AULO+SCHE	0. 926	0. 002	**
BFMO+SCHE	0. 926	0. 002	**
GOWH+SCHE	0. 913	0. 003	**
GRFA+SCHE	0. 913	0. 005	**
EWHI+SCHE	0. 866	0. 017	*

300- 500m a. s. l		#sps.	1
	IndVal	p. value	
BFMO+RCFD		0. 874	0. 010 **
500- 700m a. s. l		#sps.	5
	IndVal	p. value	
GRCA+RCFD		0. 946	0. 001 ***
RCFD+YTSW		0. 929	0. 003 **
WOFD+YTSW		0. 904	0. 004 **
GRCA+KIPA		0. 901	0. 008 **
GRCA+WOFD		0. 899	0. 004 **
700- 900m a. s. l		#sps.	8
	IndVal	p. value	
EYRO+WHPI		0. 935	0. 004 **
WHPI+YTSW		0. 926	0. 003 **
WHPI		0. 903	0. 012 *
WHPI+WTRE		0. 886	0. 008 **
BRGE+WHPI		0. 885	0. 015 *
BRCD+WHPI		0. 879	0. 016 *
LEHE+WHPI		0. 879	0. 015 *
AULO+WHPI		0. 862	0. 018 *

300- 700m a. s. l		#sps.	11
	IndVal	p. value	

BRCD+RCFD	0.949	0.005	**	GOWH+PRI F	0.866	0.015	*
RCFD	0.946	0.005	**	GOWH+WOFD	0.866	0.015	*
LEHE+RCFD	0.944	0.005	**	GRCA+GRFA	0.866	0.021	*
BRGE+RCFD	0.939	0.005	**	GRCA+KI PA	0.866	0.015	*
RCFD+WOFD	0.913	0.005	**	GRCA+PYRO	0.866	0.023	*
WOFD	0.891	0.020	*	KI PA+WOFD	0.866	0.015	*
LEHE+WOFD	0.891	0.020	*	700m a. s. l	#sps.	16	
BRCD+WOFD	0.890	0.021	*	IndVal	p. val ue		
BRGE+WOFD	0.890	0.023	*	EYRO+PRI F	1.000	0.002	**
GOWH+WOFD	0.880	0.023	*	ESPI+PRI F	0.894	0.004	**
GRFA+RCFD	0.880	0.026	*	PCUR+PRI F	0.894	0.004	**
500- 900m a. s. l		#sps.	1	CROS+ESPI	0.866	0.010	**
IndVal		p. val ue		CROS+EYRO	0.866	0.010	**
GRCA+YTSW	0.868	0.05	*	CROS+PCUR	0.866	0.010	**
700- 1100m a. s. l		#sps.	1	ESPI+WHPI	0.866	0.016	*
Indval		p. val ue		PRI F+WHPI	0.866	0.016	*
EYRO+YTSW	0.953	0.002	**	300- 500m a. s. l	#sps.	1	
				Indval	p. val ue		
				AULO+GOWH	0.866	0.007	**

Autumn

Total number of species: 1081

List of indicators associated with each elevation or elevational range:

300m a. s. l		#sps.	9
IndVal		p. val ue	
BRCD+GRFA	0.866	0.026	*
BRCD+PCUR	0.866	0.021	*
BRCD+SCHE	0.866	0.025	*
BRCD+SPPA	0.866	0.022	*
BRCD+WTRE	0.866	0.021	*
GRFA+PCUR	0.866	0.026	*
PCUR+SCHE	0.866	0.025	*
PCUR+SPPA	0.866	0.022	*
PCUR+WHPI	0.866	0.026	*
900m a. s. l		#sps.	1
IndVal		p. val ue	
KI PA+RORO	0.894	0.008	**
900- 1100m a. s. l		#sps.	1
IndVal		p. val ue	
BRTB+RORO	0.866	0.015	*

Winter

Total number of species: 1128

List of indicators associated with each elevation or elevational range:

500m a. s. l		#sps.	8
IndVal		p. val ue	
GOWH+GRCA	1.000	0.002	**
GOWH+WBSW	0.913	0.004	**

500- 700m a. s. l		#sps.	10
Indval		p. val ue	
PRI F	0.935	0.001	***
AULO+PRI F	0.935	0.001	***
BRGE+PRI F	0.935	0.001	***
BRTB+PRI F	0.935	0.001	***
LEHE+PRI F	0.935	0.001	***
PRI F+WTRE	0.935	0.001	***
PRI F+YTSW	0.935	0.001	***
EWHI+PRI F	0.866	0.005	**
MSTB+PRI F	0.866	0.006	**
PRI F+WBSW	0.866	0.008	**
700- 900m a. s. l		#sps.	5
IndVal		p. val ue	
BRTB+ESPI	0.935	0.001	***
ESPI+MSTB	0.935	0.001	***
ESPI+EYRO	0.920	0.001	***
ESPI+LEHE	0.889	0.009	**
AULO+ESPI	0.882	0.004	**
300- 700m a. s. l		#sps.	1
IndVal		p. val ue	
AULO+WTRE	0.913	0.021	*
700- 1100m a. s. l		#sps.	1
IndVal		p. val ue	
ESPI+YTSW	0.889	0.017	*

Signif. codes: 0 ‘***’ 0.001 ‘**’
0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Supplementary Material Appendix 5: Species Names

The taxonomic order and nomenclature in this paper follows IOC World Bird Names, version 8.1. Some readers may be more familiar with the taxonomy of Australian birds proposed by Christidis and Boles (2008). Since that time there have been a number of taxonomic revisions published in the literature. Please see <http://goo.gl/QqvwaU> for a list of all bird species found in Australia based on the 2018 IOC checklist.

The following table provides a comparison between the taxonomy and nomenclature used in Christidis and Boles (2008), and the taxonomy and nomenclature used in version 8.1 of the IOC World Bird Names. The common names as given in Christidis and Boles (2008) are listed in alphabetical order.

Christidis and Boles Taxonomy of Australian Birds (2008)		IOC World Bird Names version 8.1 (2018)	
Common Name	Scientific Name	Common Name	Scientific Name
Albert's Lyrebird	<i>Menura alberti</i>	Albert's Lyrebird	<i>Menura alberti</i>
Australian Brush-turkey	<i>Alectura lathami</i>	Australian Brushturkey	<i>Alectura lathami</i>
Australian King-Parrot	<i>Alisterus scapularis</i>	Australian King Parrot	<i>Alisterus scapularis</i>
Australian Logrunner	<i>Orthonyx temminckii</i>	Australian Logrunner	<i>Orthonyx temminckii</i>
Bassian Thrush	<i>Zoothera lunulata</i>	Bassian Thrush	<i>Zoothera lunulata</i>
Black-faced Cuckoo-shrike	<i>Coracina novaehollandiae</i>	Black-faced Cuckooshrike	<i>Coracina novaehollandiae</i>
Black-faced Monarch	<i>Monarcha melanopsis</i>	Black-faced Monarch	<i>Monarcha melanopsis</i>
Brown Cuckoo-Dove	<i>Macropygia amboinensis</i>	Brown Cuckoo-Dove	<i>Macropygia phasianella</i>
Brown Gerygone	<i>Gerygone mouki</i>	Brown Gerygone	<i>Gerygone mouki</i>
Brown Thornbill	<i>Acanthiza pusilla</i>	Brown Thornbill	<i>Acanthiza pusilla</i>
Brush Cuckoo	<i>Cacomantis variolosus</i>	Brush Cuckoo	<i>Cacomantis variolosus</i>
Crested Shrike-tit	<i>Falcunculus frontatus</i>	Crested Shriketit	<i>Falcunculus frontatus</i>
Crimson Rosella	<i>Platycercus elegans</i>	Crimson Rosella	<i>Platycercus elegans</i>
Eastern Spinebill	<i>Acanthorhynchus tenuirostris</i>	Eastern Spinebill	<i>Acanthorhynchus tenuirostris</i>
Eastern Whistler	<i>Psophodes olivaceous</i>	Eastern Whistler	<i>Psophodes olivaceous</i>
Eastern Yellow Robin	<i>Eopsaltria australis</i>	Eastern Yellow Robin	<i>Eopsaltria australis</i>
Emerald Dove	<i>Chalcophaps indica</i>	Common Emerald Dove	<i>Chalcophaps indica</i>
Fan-tailed Cuckoo	<i>Cacomantis flabelliformis</i>	Fan-tailed Cuckoo	<i>Cacomantis flabelliformis</i>
Golden Whistler	<i>Pachycephala pectoralis</i>	Australian Golden Whistler	<i>Pachycephala pectoralis</i>
Green Catbird	<i>Ailuroedus crassirostris</i>	Green Catbird	<i>Ailuroedus crassirostris</i>
Grey Fantail	<i>Rhipidura albiscapa</i>	Grey Fantail	<i>Rhipidura albiscapa</i>
Grey Shrike-thrush	<i>Colluricinclla harmonica</i>	Grey Shrikethrush	<i>Colluricinclla harmonica</i>
Large-billed Scrubwren	<i>Sericornis magnirostra</i>	Large-billed Scrubwren	<i>Sericornis magnirostra</i>
Laughing Kookaburra	<i>Dacelo novaeguineae</i>	Laughing Kookaburra	<i>Dacelo novaeguineae</i>
Lewin's Honeyeater	<i>Meliphaga lewinii</i>	Lewin's Honeyeater	<i>Meliphaga lewinii</i>
Little Shrike-thrush	<i>Colluricinclla megarhyncha</i>	Little Shrikethrush	<i>Colluricinclla megarhyncha</i>

Mistletoebird	<i>Dicaeum hirundinaceum</i>	Mistletoebird	<i>Dicaeum hirundinaceum</i>
Noisy Pitta	<i>Pitta versicolor</i>	Noisy Pitta	<i>Pitta versicolor</i>
Olive-backed Oriole	<i>Oriolus sagittatus</i>	Olive-backed Oriole	<i>Oriolus sagittatus</i>
Pale-yellow Robin	<i>Tregellasia capito</i>	Pale-yellow Robin	<i>Tregellasia capito</i>
Paradise Riflebird	<i>Ptiloris paradiseus</i>	Paradise Riflebird	<i>Ptiloris paradiseus</i>
Pied Currawong	<i>Strepera graculina</i>	Pied Currawong	<i>Strepera graculina</i>
Rainbow Lorikeet	<i>Trichoglossus haematodus</i>	Rainbow Lorikeet	<i>Trichoglossus moluccanus</i>
Regent Bowerbird	<i>Sericulus chrysocephalus</i>	Regent Bowerbird	<i>Sericulus chrysocephalus</i>
Rose Robin	<i>Petroica rosea</i>	Rose Robin	<i>Petroica rosea</i>
Rose-crowned Fruit-Dove	<i>Ptilinopus regina</i>	Rose-crowned Fruit Dove	<i>Ptilinopus regina</i>
Rufous Fantail	<i>Rhipidura rufifrons</i>	Rufous Fantail	<i>Rhipidura rufifrons</i>
Russet-tailed Thrush	<i>Zoothera heinei</i>	Russet-tailed Thrush	<i>Zoothera heinei</i>
Satin Bowerbird	<i>Ptilonorhynchus violaceus</i>	Satin Bowerbird	<i>Ptilonorhynchus violaceus</i>
Scarlet Honeyeater	<i>Myzomela sanguinolenta</i>	Scarlet Myzomela	<i>Myzomela sanguinolenta</i>
Shining Bronze-Cuckoo	<i>Chrysococcyx lucidus</i>	Shining Bronze Cuckoo	<i>Chrysococcyx lucidus</i>
Silveryeye	<i>Zosterops lateralis</i>	Silveryeye	<i>Zosterops lateralis</i>
Spangled Drongo	<i>Dicrurus bracteatus</i>	Spangled Drongo	<i>Dicrurus bracteatus</i>
Spectacled Monarch	<i>Sympasiachrus trivirgatus</i>	Spectacled Monarch	<i>Sympasiachrus trivirgatus</i>
Spotted Pardalote	<i>Pardalotus punctatus</i>	Spotted Pardalote	<i>Pardalotus punctatus</i>
Striated Pardalote	<i>Pardalotus striatus</i>	Striated Pardalote	<i>Pardalotus striatus</i>
Striated Thornbill	<i>Acanthiza lineata</i>	Striated Thornbill	<i>Acanthiza lineata</i>
Sulphur-crested Cockatoo	<i>Cacatua galerita</i>	Sulphur-crested Cockatoo	<i>Cacatua galerita</i>
Superb Fruit-Dove	<i>Ptilinopus superbus</i>	Superb Fruit Dove	<i>Ptilinopus superbus</i>
Topknot Pigeon	<i>Lopholamus antarcticus</i>	Topknot Pigeon	<i>Lopholamus antarcticus</i>
Varied Triller	<i>Lalage leucomela</i>	Varied Triller	<i>Lalage leucomela</i>
White-browed Scrubwren	<i>Sericornis frontalis</i>	White-browed Scrubwren	<i>Sericornis frontalis</i>
White-headed Pigeon	<i>Columba leucomela</i>	White-headed Pigeon	<i>Columba leucomela</i>
White-throated Treecreeper	<i>Cormobates leucophaea</i>	White-throated Treecreeper	<i>Cormobates leucophaea</i>
Wompoo Fruit-Dove	<i>Ptilinopus magnificus</i>	Wompoo Fruit Dove	<i>Ptilinopus magnificus</i>
Wonga Pigeon	<i>Leucosarcia picata</i>	Wonga Pigeon	<i>Leucosarcia melanoleuca</i>
Yellow-faced Honeyeater	<i>Lichenostomus chrysops</i>	Yellow-faced Honeyeater	<i>Caligavis chrysops</i>
Yellow-tailed Black-Cockatoo	<i>Calyptorhynchus funereus</i>	Yellow-tailed Black Cockatoo	<i>Calyptorhynchus funereus</i>
Yellow-throated Scrubwren	<i>Sericornis citreogularis</i>	Yellow-throated Scrubwren	<i>Sericornis citreogularis</i>