Avian speciation and biodiversity in South-east Sulawesi, Indonesia: drivers of diversification

by

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Table S4.1: Full list of samples utilised in the phylogenetic analysis for Chapter 4, detailing the species, sampling location and museum ID. Haplotypes identified for concatenated ND2 and ND3 sequences and for COI sequences in this study are listed. GenBank accession numbers are provided. The source column identifies whether the sequences were produced by this study, are associated with a published study or are unpublished sequences. Individuals are ordered by ND2/ND3 haplotype. Sulawesi samples collected under licence from Kementerian Negara Riset dan Teknologi (RISTEKDIKTI). Institutional abbreviations are as follows: USNM - United States National Museum; PAA - Institute of Biology University of the Philippines Diliman; SDNCU -Specimen Depository of the Graduate School of Natural Sciences Nagoya City University; NC - National Center for Biotechnology Information, NIH, Bethesda, USA; KUNHM - University of Kansas Natural History Museum; UWBM - Burke Museum University of Washington; AMNH - American Museum of Natural History; SUL - Zoology Department, Trinity College Dublin; SNZP - Smithsonian National Zoological Park; ANWC - Australian National Wildlife Collections; UDP - Institute of Biology University of the Philippines Diliman; MNHN - Le Muséum National d'Histoire Naturelle, LSUMNS - Louisiana State University Museum of Natural Science.

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
USNM: Birds: 607356	*Actenoides lindsayi*	*lindsayi*	Philippines: Luzon				hapAL1	JQ173902.2	Schindel *et al.* (2011)
PAA 2413	*Actenoides lindsayi*	*lindsayi*	Philippines: Luzon				hapAL2	KC354893.1	Unpublished
SDNCU-A2689	*Dacelo novaeguineae*		Australia				hapDN1	LC145062.1	Unpublished

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
NC_028177.1	*Halcyon coromanda*		SE Asia	hapHC1	NC_028177	NC_028177	hapHC1	NC_028177	Unpublished
NC_024198.1	*Halcyon pileata*		SE Asia	hapHP1	NC_024198	NC_024198	hapHP1	NC_024198	Unpublished
KY940559.1	*Halcyon symrnensis*		SE Asia	hapHS1	KY940559.1	KY940559.1	hapHS1	KY940559.1	Unpublished
KUNHM 7143	*Syma megarhyncha*		PNG: Morobe Province	hapSM1	KP291344.1	KP291395.1			Andersen *et al.* (2015)
KUNHM 5215	*Syma torotoro*		PNG	hapST1	KP291306.1	KP291525.1			Andersen *et al.* (2015)
UWBM 67535	*Todiramphus chloris*	*humii*	Singapore	hapC01	KP291392.1	KP291461.1			Andersen *et al.* (2015)
UWBM 76183	*Todiramphus chloris*	*humii*	Singapore	hapC02	KP291293.1	KP291505.1			Andersen *et al.* (2015)
UWBM 76211	*Todiramphus chloris*	*humii*	Singapore	hapC03	KP291254.1	KP291520.1			Andersen *et al.* (2015)
UWBM 81948	*Todiramphus chloris*	*laubmannianus*	Malaysia: Sarawak, Borneo	hapC04	KP291343.1	KP291534.1			Andersen *et al.* (2015)

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
KUNHM 13971	*Todiramphus chloris*	*collaris*	Philippines: Camiguin Sur Is.	hapC04	KP291279.1	KP291449.1			Andersen *et al.* (2015)
KUNHM 14010	*Todiramphus chloris*	*collaris*	Philippines: Camiguin Sur Is.	hapC04	KP291322.1	KP291480.1			Andersen *et al.* (2015)
KUNHM 17938	*Todiramphus chloris*	*collaris*	Philippines: Mindanao Is.	hapC04	KP291258.1	KP291467.1			Andersen *et al.* (2015)
KUNHM 18130	*Todiramphus chloris*	*collaris*	Philippines: Mindanao Is.	hapC04	KP291277.1	KP291398.1			Andersen *et al.* (2015)
KUNHM 18134	*Todiramphus chloris*	*collaris*	Philippines: Mindanao Is.	hapC04	KP291336.1	KP291544.1			Andersen *et al.* (2015)
KUNHM 14446	*Todiramphus chloris*	*collaris*	Philippines: Tablas Is.	hapC04	KP291353.1	KP291475.1			Andersen *et al.* (2015)
KUNHM 20983	*Todiramphus chloris*	*collaris*	Philippines: Bohol Is	hapC05	KP291329.1	KP291542.1			Andersen *et al.* (2015)
KUNHM 28674	*Todiramphus chloris*	*collaris*	Philippines: Mindanao Is.	hapC05	KP291340.1	KP291458.1			Andersen *et al.* (2015)
KUNHM 14447	*Todiramphus chloris*	*collaris*	Philippines: Tablas Is.	hapC05	KP291384.1	KP291522.1			Andersen *et al.* (2015)

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
KUNHM 13960	*Todiramphus chloris*	*collaris*	Philippines: Camiguin Sur Is.	hapC06	KP291364.1	KP291404.1			Andersen *et al.* (2015)
KUNHM 28455	*Todiramphus chloris*	*collaris*	Philippines: Mindanao Is.	hapC07	KP291248.1	KP291410.1			Andersen *et al.* (2015)
KUNHM 23630	*Todiramphus chloris*	*teraokai*	Palau: Babeldaob Is.	hapC08	KP291299.1	KP291443.1			Andersen *et al.* (2015)
KUNHM 23690	*Todiramphus chloris*	*teraokai*	Palau: Peleliu Is.	hapC08	KP291341.1	KP291472.1			Andersen *et al.* (2015)
KUNHM 23631	*Todiramphus chloris*	*teraokai*	Palau: Babeldaob Is.	hapC09	KP291366.1	KP291413.1			Andersen *et al.* (2015)
AMNH DOT 12606	*Todiramphus chloris*	*chloris*	Sulawesi: Central Sulawesi mainland	hapC10	KP291238.1	KP291537.1			Andersen *et al.* (2015)
SUL1920	*Todiramphus chloris*	*chloris*	Sulawesi: Buton Island	hapC11	MG845636	MG845607	hapC03	MG845665	**This study**
SUL1961	*Todiramphus chloris*	*chloris*	Sulawesi: Buton Island	hapC11	MG845638	MG845609	hapC03	MG845667	**This study**
SUL2317	*Todiramphus chloris*	*chloris*	Sulawesi: Muna Island	hapC11	MG845641	MG845612			**This study**

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
SUL2425	*Todiramphus chloris*	*chloris*	Sulawesi: SE Sulawesi mainland	hapC11	MG845642	MG845613			**This study**
SUL2447	*Todiramphus chloris*	*chloris*	Sulawesi: SE Sulawesi mainland	hapC11	MG845643	MG845614			**This study**
SUL0506	*Todiramphus chloris*	*chloris*	Sulawesi: Kabaena	hapC12	MG845637	MG845608	hapC03	MG845666	**This study**
SUL1884	*Todiramphus chloris*	*chloris*	Sulawesi: Hoga, Wakatobi Is.	hapC13	MG845639	MG845610	hapC05	MG845668	**This study**
SUL1864	*Todiramphus chloris*	*chloris*	Sulawesi: Binongko, Wakatobi Is.	hapC14	MG845634	MG845605	hapC04	MG845663	**This study**
SUL1767	*Todiramphus chloris*	*chloris*	Sulawesi: Tomia, Wakatobi Is.	hapC14	MG845635	MG845606	hapC04	MG845664	**This study**
SUL1656	*Todiramphus chloris*	*chloris*	Sulawesi: Hoga, Wakatobi Is.	hapC14	MG845640	MG845611			**This study**
SUL1858	*Todiramphus chloris*	*chloris*	Sulawesi: Binongko, Wakatobi Is.	hapC15	MG845633	MG845604	hapC04	MG845662	**This study**

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
SNZP TKP 2003092	*Todiramphus colonus*		PNG: Tobwoiama Is., D'Entrecasteaux Archipelago	HapZ01	KP291294.1	KP291547.1			Andersen *et al.* (2015)
SNZP TKP 2003097	*Todiramphus colonus*		PNG: Rossel Is., Louisiade Archipelago	HapZ01	KP291347.1	KP291424.1			Andersen *et al.* (2015)
SNZP TKP2003071	*Todiramphus colonus*		PNG: Rossel Is., Louisiade Archipelago	HapZ01	KP291358.1	KP291482.1			Andersen *et al.* (2015)
SNZP TKP 2003089	*Todiramphus colonus*		PNG: Rossel Is., Louisiade Archipelago	HapZ02	KP291333.1	KP291441.1			Andersen *et al.* (2015)
SNZP TKP 2003070	*Todiramphus colonus*		PNG: Rossel Is., Louisiade Archipelago	HapZ02	KP291383.1	KP291459.1			Andersen *et al.* (2015)
ANWC B33719	*Todiramphus sordidus*	*sordidus*	Australia: NE Darwin, Northern Territory	HapY01	KP291318.1	KP291527.1			Andersen *et al.* (2015)

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
ANWC B33719	*Todiramphus sordidus*	*sordidus*	Australia: Northern Territory	HapY02	KP291318.1	KP291527.1			Andersen *et al.* (2015)
ANWC B337120	*Todiramphus sordidus*	*sordidus*	Australia: Northern Territory	HapY03	KP291361.1	KP291442.1			Andersen *et al.* (2015)
ANWC B51462	*Todiramphus sordidus*	*sordidus*	Australia: Cape York Peninsula, Queensland	HapY04	KP291240.1	KP291515.1			Andersen *et al.* (2015)
ANWC B44296	*Todiramphus sordidus*	*colcloughi*	Australia: N Rockhampton, Queensland	HapY05	KP291390.1	KP291438.1			Andersen *et al.* (2015)
USNM: Birds: 635317	*Todiramphus chloris*	*collaris*	Philippines: Cagayan, Babuyan Islands				hapC01	JQ176503.2	Schindel *et al.* (2011)
UPD24	*Todiramphus chloris*	*collaris*	Philippines: Quezon City, Luzon				hapC01	HM622578.1	Luczon *et al.* (2010)
UPD10	*Todiramphus chloris*	*collaris*	Philippines: Quezon City, Luzon				hapC02	HM622581.1	Luczon *et al.* (2010)

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
UPD15	*Todiramphus chloris*	*collaris*	Philippines: Quezon City, Luzon				hapC02	HM622580.1	Luczon *et al.* (2010)
UPD16	*Todiramphus chloris*	*collaris*	Philippines: Quezon City, Luzon				hapC02	HM622579.1	Luczon *et al.* (2010)
JX297488	*Todiramphus gambieri*	*gertrudae*	Tuamotu Is.				hapG01	JX297488.1	Unpublished
USNM: Birds: 612714	*Todiramphus macleayii*	*incinctus*	Australia: Queensland				hapM01	JQ176504.2	Schindel *et al.* (2011)
USNM: Birds: 542628	*Todiramphus macleayii*	*incinctus*	Australia: Queensland				hapM02	JQ176505.1	Schindel *et al.* (2011)
SUL2578	*Todiramphus sanctus*	*sanctus*	Sulawesi: Menui	hapS01	MG845651	MG845622	hapS01	MG845675	**This study**
SUL2582	*Todiramphus sanctus*	*sanctus*	Sulawesi: Menui	hapS01	MG845653	MG845624	hapS01	MG845677	**This study**

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
SUL1634	*Todiramphus sanctus*	*sanctus*	Sulawesi: Kaledupa, Wakatobi Is.	hapS01	MG845646	MG845617	hapS03	MG845670	**This study**
SUL2166	*Todiramphus sanctus*	*sanctus*	Sulawesi: SE Sulawesi mainland	hapS01	MG845655	MG845626	hapS05	MG845679	**This study**
UWBM 57468	*Todiramphus sanctus*	*sanctus*	Australia: NSW	hapS01	KP291317.1	KP291469.1			Andersen *et al.* (2015)
UWBM 62818	*Todiramphus sanctus*	*sanctus*	Australia: NSW	hapS01	KP291376.1	KP291397.1			Andersen *et al.* (2015)
UWBM 72545	*Todiramphus sanctus*	*sanctus*	Australia: Queensland	hapS01	KP291271.1	KP291471.1			Andersen *et al.* (2015)
SUL2575	*Todiramphus sanctus*	*sanctus*	Sulawesi: Menui	hapS01	MG845661	MG845632			**This study**
MNHN NC83	*Todiramphus sanctus*	*canacorum*	New Caldedonia	hapS01	KP291303.1	KP291473.1			Andersen *et al.* (2015)
KUNHM 7557	*Todiramphus sanctus*	*sanctus*	PNG: Western Province	hapS01	KP291273.1	KP291453.1			Andersen *et al.* (2015)

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
UWBM 58750	*Todiramphus sanctus*	*sanctus*	Solomon Islands: Santa Isabel Is.	hapS01	KP291330.1	KP291419.1			Andersen *et al.* (2015)
AMNH DOT12594	*Todiramphus sanctus*	*sanctus*	Sulawesi: Central Sulawesi	hapS01	KP291253.1	KP291437.1			Andersen *et al.* (2015)
SUL0509	*Todiramphus sanctus*	*sanctus*	Sulawesi: Kabaena	hapS01	MG845659	MG845630			**This study**
SUL1633	*Todiramphus sanctus*	*sanctus*	Sulawesi: Kaledupa, Wakatobi Is.	hapS01	MG845645	MG845616			**This study**
UWBM 68062	*Todiramphus sanctus*	*sanctus*	PNG: Schumann Is., Bismarck Archipelago	hapS02	KP291352.1	KP291423.1			Andersen *et al.* (2015)
SUL0537	*Todiramphus sanctus*	*sanctus*	Sulawesi: Kabaena	hapS03	MG845650	MG845621	hapS01	MG845674	**This study**
UWBM 68059	*Todiramphus sanctus*	*sanctus*	PNG: Schumann Is., Bismarck Archipelago	hapS04	KP291259.1	KP291478.1			Andersen *et al.* (2015)

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
ANWC B34659	*Todiramphus sanctus*	*sanctus*	Australia: Western Australia	hapS05	KP291345.1	KP291431.1			Andersen *et al.* (2015)
SUL1899	*Todiramphus sanctus*	*sanctus*	Sulawesi: Hoga, Wakatobi Is.	hapS06	MG845657	MG845628	hapS01	MG845682	**This study**
SUL1587	*Todiramphus sanctus*	*sanctus*	Sulawesi: Kaledupa, Wakatobi Is.	hapS06	MG845656	MG845627	hapS01	MG845681	**This study**
ANWC B54622	*Todiramphus sanctus*	*sanctus*	Australia: Roper River, Northern Territory	hapS07	KP291377.1	KP291495.1			Andersen *et al.* (2015)
ANWC B34636	*Todiramphus sanctus*	*sanctus*	Australia: SE Darwin, Northern Territory	hapS08	KP291332.1	KP291540.1			Andersen *et al.* (2015)
LSUMNS B45812	*Todiramphus sanctus*	*sanctus*	Vanuatu	hapS09	KP291285.1	KP291456.1			Andersen *et al.* (2015)
KUNHM 19403	*Todiramphus sanctus*	*sanctus*	Solomon Islands: Nendo Is., Santa Cruz Group	hapS10	KP291372.1	KP291491.1			Andersen *et al.* (2015)

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
SUL0517	*Todiramphus sanctus*	*sanctus*	Sulawesi: Kabaena	hapS11	MG845649	MG845620	hapS01	MG845673	**This study**
SUL2556	*Todiramphus sanctus*	*sanctus*	Sulawesi: Menui	hapS12	MG845660	MG845631			**This study**
SUL0510	*Todiramphus sanctus*	*sanctus*	Sulawesi: Kabaena	hapS13	MG845648	MG845619	hapS01	MG845672	**This study**
SUL0504	*Todiramphus sanctus*	*sanctus*	Sulawesi: Kabaena	hapS14	MG845658	MG845629			**This study**
ANWC B50292	*Todiramphus sanctus*	*sanctus*	Australia: Western Australia	hapS15	KP291288.1	KP291420.1			Andersen *et al.* (2015)
UWBM 63200	*Todiramphus sanctus*	*sanctus*	Solomon Islands: Choiseul Is.	hapS15	KP291281.1	KP291492.1			Andersen *et al.* (2015)
SUL0498	*Todiramphus sanctus*	*sanctus*	Sulawesi: Kabaena	hapS16	MG845647	MG845618		MG845671	**This study**
UWBM 76296	*Todiramphus sanctus*	*sanctus*	Solomon Islands: New Georgia Is.	hapS17	KP291245.1	KP291484.1			Andersen *et al.* (2015)

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
SUL2580	*Todiramphus sanctus*	*sanctus*	Sulawesi: Menui	hapS18	MG845652	MG845623	hapS01	MG845676	**This study**
SUL1071	*Todiramphus sanctus*	*sanctus*	Sulawesi: Runduma, Wakatobi Is.	hapS19	MG845644	MG845615	hapS02	MG845669	**This study**
KUNHM 7567	*Todiramphus sanctus*	*sanctus*	PNG	hapS20	KP291262.1	KP291531.1			Andersen *et al.* (2015)
SUL2584	*Todiramphus sanctus*	*sanctus*	Sulawesi: Menui	hapS21	MG845654	MG845625	hapS04	MG845678	**This study**
MNHN NC10	*Todiramphus sanctus*	*canacorum*	New Caldedonia	hapS21	KP291326.1	KP291546.1			Andersen *et al.* (2015)
KUNHM 14879	*Todiramphus sanctus*	*vagans*	New Zealand: Waiheke Is, Auckland	hapS21	KP291369.1	KP291488.1			Andersen *et al.* (2015)
KUNHM 14877	*Todiramphus sanctus*	*vagans*	New Zealand: Warkworth, Aukland	hapS21	KP291278.1	KP291536.1			Andersen *et al.* (2015)

ID	Species	Subspecies	Locality	ND2/3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.	Source
USNM: Birds: 610567	*Todiramphus sanctus*	*sanctus*	Australia: NSW				hapS01	JQ176506.1	Schindel *et al.* (2011)
SUL1580	*Todiramphus sanctus*	*sanctus*	Sulawesi: Kaledupa, Wakatobi Is.				hapS06	MG845680	**This study**
KUNHM 27804	*Todiramphus saurophagus*	*saurophagus*	PNG: Nusalaman Is., Bismarck Archipelago	hapX01	KP291356.1	KP291533.1			Andersen *et al.* (2015)
UWBM 69666	*Todiramphus saurophagus*	*saurophagus*	Solomon Islands: Hekelake Is.	hapX02	KP291356.1	KP291490.1			Andersen *et al.* (2015)
UWBM 60326	*Todiramphus saurophagus*	*saurophagus*	Solomon Islands: Hekelake Is.	hapX03	KP291374.1	KP291407.1			Andersen *et al.* (2015)
UWBM 60204	*Todiramphus saurophagus*	*saurophagus*	Solomon Islands: Kiaba Is.	hapX03	KP291241.1	KP291500.1			Andersen *et al.* (2015)

Table S4.2: Novel primers developed for this study. DOC-ND3-R1 was developed as a match for L10755 (Chesser 1999) to sequence the whole ND3 region. All other listed primers are internal primers for ND2.

Locus	Primer name	5′ to 3′ sequence	Direction
ND3	DOC-ND3-R1	TTGTTGAGTCGAAATCAACTG	Reverse
ND2	DOC-ND2-F1	ATACCCCGAAAATGATGGT	Forward
ND2	HMfar-R	CTTGTTTAAGGCTTTGAAGGC	Reverse
ND2	HMnr-FK	GAAGAGATCAAAACCCTCCATACT	Forward
ND2	HMnr-R	GGGAAGTCCTGCTAGGGATA	Reverse
ND2	HMnr-RK	AATAGTAGGATGGTGATTGGGG	Reverse
ND2	HMfar-FK	CCCCAATCACCATCCTACTATT	Forward
ND2	HMfar-RK	TGCGGATCTTAACAGAAACTAAGAG	Reverse

Table S4.3: ND2 pairwise percentage distances between the *Todiramphus* clades in this study. Mean pairwise distances are reported for taxa with more than one sample.

	1.	**2.**	**3.**	**4.**	**5.**	**6.**	**7.**	**8.**
1. *T. c. chloris* 'Sulawesi'	-							
2. *T. c. chloris* 'Wakatobi'	0.4	-						
3. *T. c. humii* 'Singapore'	1.3	1.1	-					
4. *T. c. collaris, T. c. laubmannianus* and *T. c. teraokai* 'Philippines, Borneo and Palau'	1.3	1.0	0.9	-				
5. *T. colonus*	0.9	0.9	1.1	1.0	-			
6. *T. sordidus*	1.3	1.1	1.3	1.2	0.7	-		
7. *T. sanctus*	1.3	1.0	1.2	1.1	0.5	0.7	-	
8. *T. saurophagus*	1.4	1.1	1.3	1.2	0.9	0.9	0.9	-

Table S4.4: COI pairwise percentage distances between the *Todiramphus* clades in this study. Mean pairwise distances are reported for taxa with more than one sample.

	1.	**2.**	**3.**	**4.**	**5.**	**6.**
1. *T. c. chloris* 'Sulawesi'	-					
2. *T. c. chloris* 'Wakatobi'	0.7	-				
3. *T. c. collaris* 'Philippines'	2.5	2.2	-			
4. *T. sanctus*	2.0	1.7	1.6	-		
5. *T. macleayii*	5.7	5.4	5.4	5.5	-	
6. *T. gambieri*	3.0	2.6	3.2	2.7	6.3	-

Table S4.5: Classification accuracy of the DFA for morphology of Sulawesi *Todiramphus* populations, using wing, bill and skull length, and weight.

	Collared Kingfisher 'mainland'	Collared Kingfisher 'Wakatobi'	Sacred Kingfisher
Collared Kingfisher 'mainland' (*N* = 15)	100		
Collared Kingfisher 'Wakatobi' (*N* = 10)		100	
Sacred Kingfisher (*N* = 18)			100

Table S4.6: Existing vouchered specimens of Collared Kingfishers from South-east Sulawesi.

Catalogue No.	Museum	Collector	Collector's No.	Zone	Island	Year	Preparation	Sex
SKIN 639830	AMNH	Heinrich Kühn	4132	Mainland	Buton	1901	Skin	Male
SKIN 639831	AMNH	Heinrich Kühn	4540	Wakatobi	Kaledupa	1901	Skin	Male
SKIN 639832	AMNH	Heinrich Kühn	4541	Wakatobi	Kaledupa	1902	Skin	Female
SKIN 639833	AMNH	Heinrich Kühn	4356	Wakatobi	Binongko	1901	Skin	Male
SKIN 639834	AMNH	Heinrich Kühn	4244	Wakatobi	Binongko	1901	Skin	Male
SKIN 639835	AMNH	Heinrich Kühn	4245	Wakatobi	Binongko	1901	Skin	Male
SKIN 639836	AMNH	Heinrich Kühn	4354	Wakatobi	Tomia	1901	Skin	Male
SKIN 639837	AMNH	Heinrich Kühn	4355	Wakatobi	Tomia	1901	Skin	Female
SKIN 639838	AMNH	Heinrich Kühn	4444	Wakatobi	Wangi-wangi	1901	Skin	Male
SKIN 639839	AMNH	Heinrich Kühn	4445	Wakatobi	Wangi-wangi	1901	Skin	Male

5. A sympatric pair of undescribed white-eye species with very different origins - Supplementary information

Table S5.1: Full list of samples utilised in the phylogenetic analysis for Chapter 5, detailing the species, sampling location and museum ID. Subspecies information is given for all populations where available, following current designations in del Hoya *et al.* (2018). Haplotypes identified for concatenated ND2 and ND3 sequences and for COI sequences in this study are listed. GenBank accession numbers are provided. Sulawesi samples collected under licence from Kementerian Negara Riset dan Teknologi (RISTEKDIKTI). Institutional abbreviations are as follows: AMNH - American Museum of Natural History; SUL - Zoology Department, Trinity College Dublin; LSUMNS - Louisiana State University Museum of Natural Science; WAM - Western Australian Museum; UWBM - Burke Museum University of Washington; NMNH - National Museum of Natural History; IOZ - Institute of Zoology, Chinese Academy of Sciences; BJNSM - National Museum of Nature and Science, Tokyo; USNM - United States National Museum; YIO - Yamashina Institute for Ornithology; KUNHM - University of Kansas Natural History Museum; FMNH - Field Museum of Natural History; CMNH - Cincinnati Museum of Natural History.

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
AMNH DOT12558	*Zosterops chloris intermedius*	Indonesia: south Sulawesi	Moyle *et al.* (2009)	hapCH01	FJ460798.1	FJ460866.1		
SUL2444	*Zosterops chloris mentoris*	Indonesia: Lasada village, Abuki, mainland South-east Sulawesi	**This study**	hapCH02	MH492806	MH492862		
SUL2445	*Zosterops chloris mentoris*	Indonesia: Lasada village, Abuki, mainland South-east Sulawesi	**This study**	hapCH02	MH492807	MH492863		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
SUL2082	*Zosterops chloris mentoris*	Indonesia: Halu Oleo University, Kendari, mainland South-east Sulawesi	**This study**	hapCH02	MH492799	MH492855	hapCH01	MH492915
SUL2054	*Zosterops chloris mentoris*	Indonesia: Halu Oleo University, Kendari, mainland South-east Sulawesi	**This study**	hapCH02	MH492798	MH492854		
SUL2181	*Zosterops chloris mentoris*	Indonesia: Kendari city mangrove, mainland South-east Sulawesi	**This study**	hapCH02	MH492800	MH492856	hapCH01	MH492916
SUL2194	*Zosterops chloris mentoris*	Indonesia: Kendari city mangrove, mainland South-east Sulawesi	**This study**	hapCH02	MH492801	MH492857		
SUL1359	*Zosterops chloris mentoris*	Indonesia: Rumbarumba, mainland South-east Sulawesi	**This study**	hapCH02	MH492802	MH492858	hapCH01	MH492913
SUL1313	*Zosterops chloris mentoris*	Indonesia: Rumbarumba, mainland South-east Sulawesi	**This study**	hapCH02	MH492805	MH492861		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
SUL2007	*Zosterops chloris intermedius*	Indonesia: Labundobundo, Buton Is., South-east Sulawesi	**This study**	hapCH02	MH492810	MH492866	hapCH01	MH492911
SUL1993	*Zosterops chloris intermedius*	Indonesia: Labundobundo, Buton Is., South-east Sulawesi	**This study**	hapCH02	MH492811	MH492867		
SUL2009	*Zosterops chloris intermedius*	Indonesia: Labundobundo, Buton Is., South-east Sulawesi	**This study**	hapCH02	MH492812	MH492868		
SUL2010	*Zosterops chloris intermedius*	Indonesia: Labundobundo, Buton Is., South-east Sulawesi	**This study**	hapCH02	MH492813	MH492869		
SUL2280	*Zosterops chloris intermedius*	Indonesia: Kamama Mekar, Muna Is., South-east Sulawesi	**This study**	hapCH02	MH492815	MH492871		
SUL2325	*Zosterops chloris intermedius*	Indonesia: Kamama Mekar, Muna Is., South-east Sulawesi	**This study**	hapCH02	MH492818	MH492874		
SUL0514	*Zosterops chloris intermedius*	Indonesia: Sikeli, Kabaena Is., South-east Sulawesi	**This study**	hapCH02	MH492820	MH492876		
SUL0497	*Zosterops chloris intermedius*	Indonesia: Sikeli, Kabaena Is., South-east Sulawesi	**This study**	hapCH02	MH492822	MH492878		
SUL2420	*Zosterops chloris*	Indonesia: Dimba, Wawonii Is., South-east Sulawesi	**This study**	hapCH02	MH492823	MH492879		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
SUL1360	*Zosterops chloris mentoris*	Indonesia: Rumbarumba, mainland South-east Sulawesi	**This study**	hapCH03	MH492803	MH492859		
SUL1311	*Zosterops chloris mentoris*	Indonesia: Rumbarumba, mainland South-east Sulawesi	**This study**	hapCH03	MH492804	MH492860		
SUL2449	*Zosterops chloris mentoris*	Indonesia: Lasada village, Abuki, mainland South-east Sulawesi	**This study**	hapCH04	MH492808	MH492864		
SUL2451	*Zosterops chloris mentoris*	Indonesia: Lasada village, Abuki, mainland South-east Sulawesi	**This study**	hapCH04	MH492809	MH492865		
SUL1995	*Zosterops chloris intermedius*	Indonesia: Labundobundo, Buton Is., South-east Sulawesi	**This study**	hapCH05	MH492814	MH492870		
SUL2293	*Zosterops chloris intermedius*	Indonesia: Kamama Mekar, Muna Is., South-east Sulawesi	**This study**	hapCH06	MH492816	MH492872		
SUL2300	*Zosterops chloris intermedius*	Indonesia: Kamama Mekar, Muna Is., South-east Sulawesi	**This study**	hapCH06	MH492817	MH492873		
SUL0490	*Zosterops chloris intermedius*	Indonesia: Sikeli, Kabaena Is., South-east Sulawesi	**This study**	hapCH06	MH492821	MH492877		
SUL0558	*Zosterops chloris intermedius*	Indonesia: Sikeli, Kabaena Is., South-east Sulawesi	**This study**	hapCH07	MH492819	MH492875		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
SUL1068	*Zosterops chloris*	Indonesia: Runduma Is., South-east Sulawesi	**This study**	hapCH08	MH492824	MH492880	hapCH03	MH492919
SUL1057	*Zosterops chloris*	Indonesia: Runduma Is., South-east Sulawesi	**This study**	hapCH08	MH492825	MH492881		
SUL2228	*Zosterops chloris flavissimus*	Indonesia: Wangi-wangi Is., Wakatobi Islands, South-east Sulawesi	**This study**	hapCH09	MH492832	MH492888		
SUL2236	*Zosterops chloris flavissimus*	Indonesia: Wangi-wangi Is., Wakatobi Islands, South-east Sulawesi	**This study**	hapCH09	MH492833	MH492889		
SUL1584	*Zosterops chloris flavissimus*	Indonesia: Kaledupa Is., Wakatobi Islands, South-east Sulawesi	**This study**	hapCH10	MH492828	MH492884	hapCH05	MH492922
SUL1586	*Zosterops chloris flavissimus*	Indonesia: Kaledupa Is., Wakatobi Islands, South-east Sulawesi	**This study**	hapCH10	MH492829	MH492885	hapCH05	MH492923

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
SUL1695	*Zosterops chloris flavissimus*	Indonesia: Tomia Is., Wakatobi Islands, South-east Sulawesi	**This study**	hapCH11	MH492830	MH492886		
SUL1700	*Zosterops chloris flavissimus*	Indonesia: Tomia Is., Wakatobi Islands, South-east Sulawesi	**This study**	hapCH12	MH492831	MH492887		
SUL1865	*Zosterops chloris flavissimus*	Indonesia: Binongko Is., Wakatobi Islands, South-east Sulawesi	**This study**	hapCH12	MH492826	MH492882	hapCH06	MH492927
SUL1869	*Zosterops chloris flavissimus*	Indonesia: Binongko Is., Wakatobi Islands, South-east Sulawesi	**This study**	hapCH12	MH492827	MH492883		
SUL2032	*Zosterops chloris mentoris*	Indonesia: Halu Oleo University, Kendari, mainland South-east Sulawesi	**This study**				hapCH01	MH492914
SUL2006	*Zosterops chloris intermedius*	Indonesia: Labundobundo, Buton Is., South-east Sulawesi	**This study**				hapCH01	MH492910
SUL0485	*Zosterops chloris intermedius*	Indonesia: Sikeli, Kabaena Is., South-east Sulawesi	**This study**				hapCH01	MH492912

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
SUL0499	*Zosterops chloris intermedius*	Indonesia: Sikeli, Kabaena Is., South-east Sulawesi	**This study**				hapCH02	MH492917
SUL1064	*Zosterops chloris*	Indonesia: Runduma Is., South-east Sulawesi	**This study**				hapCH03	MH492918
SUL1516	*Zosterops chloris flavissimus*	Indonesia: Wangi-wangi Is., Wakatobi Islands, South-east Sulawesi	**This study**				hapCH04	MH492920
SUL1517	*Zosterops chloris flavissimus*	Indonesia: Wangi-wangi Is., Wakatobi Islands, South-east Sulawesi	**This study**				hapCH04	MH492921
SUL1593	*Zosterops chloris flavissimus*	Indonesia: Kaledupa Is., Wakatobi Islands, South-east Sulawesi	**This study**				hapCH05	MH492924
SUL1612	*Zosterops chloris flavissimus*	Indonesia: Kaledupa Is., Wakatobi Islands, South-east Sulawesi	**This study**				hapCH05	MH492925

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
SUL1863	*Zosterops chloris flavissimus*	Indonesia: Binongko Is., Wakatobi Islands, South-east Sulawesi	**This study**				hapCH06	MH492926
SUL1871	*Zosterops chloris flavissimus*	Indonesia: Binongko Is., Wakatobi Islands, South-east Sulawesi	**This study**				hapCH06	MH492928
SUL2422	*Zosterops consobrinorum*	Indonesia: Lasada village, Abuki, mainland South-east Sulawesi	**This study**	hapCO01	MH492838	MH492894		
SUL2458	*Zosterops consobrinorum*	Indonesia: Lasada village, Abuki, mainland South-east Sulawesi	**This study**	hapCO02	MH492839	MH492895		
SUL1301	*Zosterops consobrinorum*	Indonesia: Rumbarumba, mainland South-east Sulawesi	**This study**	hapCO03	MH492834	MH492890		
SUL1325	*Zosterops consobrinorum*	Indonesia: Rumbarumba, mainland South-east Sulawesi	**This study**	hapCO04	MH492835	MH492891	hapCO01	MH492930
SUL1331	*Zosterops consobrinorum*	Indonesia: Rumbarumba, mainland South-east Sulawesi	**This study**	hapCO05	MH492836	MH492892		
SUL1347	*Zosterops consobrinorum*	Indonesia: Rumbarumba, mainland South-east Sulawesi	**This study**	hapCO06	MH492837	MH492893	hapCO01	MH492931

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
SUL0585	*Zosterops consobrinorum*	Indonesia: Enano, Kabaena Is., South-east Sulawesi	**This study**	hapCO07	MH492840	MH492896		
SUL0622	*Zosterops consobrinorum*	Indonesia: Enano, Kabaena Is., South-east Sulawesi	**This study**	hapCO08	MH492841	MH492897		
SUL0417	*Zosterops consobrinorum*	Indonesia: Tangkeno, Kabaena Is., South-east Sulawesi	**This study**	hapCO08	MH492843	MH492899		
SUL0442	*Zosterops consobrinorum*	Indonesia: Tangkeno, Kabaena Is., South-east Sulawesi	**This study**	hapCO09	MH492842	MH492898	hapCO02	MH492932
SUL1960	*Zosterops consobrinorum*	Indonesia: Kusambi, Buton Is., South-east Sulawesi	**This study**	hapCO10	MH492845	MH492901	hapCO03	MH492934
SUL1989	*Zosterops consobrinorum*	Indonesia: Kusambi, Buton Is., South-east Sulawesi	**This study**	hapCO10	MH492846	MH492902		
SUL1923	*Zosterops consobrinorum*	Indonesia: Labundobundo, Buton Is., South-east Sulawesi	**This study**	hapCO10	MH492844	MH492900	hapCO03	MH492933
SUL1969	*Zosterops consobrinorum*	Indonesia: Kusambi, Buton Is., South-east Sulawesi	**This study**	hapCO11	MH492847	MH492903		
SUL1958	*Zosterops consobrinorum*	Indonesia: Kusambi, Buton Is., South-east Sulawesi	**This study**	hapCO12	MH492848	MH492904		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
SUL2352	*Zosterops consobrinorum*	Indonesia: Kamama Mekar, Muna Is., South-east Sulawesi	**This study**	hapCO13	MH492849	MH492905		
SUL0195	*Zosterops consobrinorum*	Indonesia: Bau-bau, Buton Is., South-east Sulawesi	**This study**				hapCO04	MH492935
SUL0638	*Zosterops consobrinorum*	Indonesia: Enano, Kabaena Is., South-east Sulawesi	**This study**				hapCO01	MH492929
SUL2205	*Zosterops sp. nov.*	Indonesia: Wangi-wangi Is., Wakatobi Islands, South-east Sulawesi	**This study**	hapCX01	MH492850	MH492906		
SUL2218	*Zosterops sp. nov.*	Indonesia: Wangi-wangi Is., Wakatobi Islands, South-east Sulawesi	**This study**	hapCX02	MH492851	MH492907		
SUL2213	*Zosterops sp. nov.*	Indonesia: Wangi-wangi Is., Wakatobi Islands, South-east Sulawesi	**This study**	hapCX02	MH492853	MH492909		
SUL2207	*Zosterops sp. nov.*	Indonesia: Wangi-wangi Is., Wakatobi Islands, South-east Sulawesi	**This study**	hapCX03	MH492852	MH492908		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
SUL1514	*Zosterops sp. nov.*	Indonesia: Wangi-wangi Is., Wakatobi Islands, South-east Sulawesi	**This study**				hapX01	MH492936
SUL1557	*Zosterops sp. nov.*	Indonesia: Wangi-wangi Is., Wakatobi Islands, South-east Sulawesi	**This study**				hapX01	MH492937
SUL2221	*Zosterops sp. nov.*	Indonesia: Wangi-wangi Is., Wakatobi Islands, South-east Sulawesi	**This study**				hapX01	MH492938
SUL2243	*Zosterops sp. nov.*	Indonesia: Wangi-wangi Is., Wakatobi Islands, South-east Sulawesi	**This study**				hapX02	MH492939
KX181885	*Zosterops flavilateralis flavilateralis*	Kenya: Chyulu Hills	Husemann *et al.* (2016)	hapAB01	KX181885	KX181885	hapAB01	KX181885
NC_032058	*Zosterops flavilateralis flavilateralis*	Kenya: Chyulu Hills	Husemann *et al.* (2016)	hapAB01	NC_032058	NC_032058	hapAB01	NC_032058
LSUMNS B36444	*Zosterops atricapilla atricapilla*	Borneo	Moyle *et al.* (2009)	hapZA01	FJ460802.1	FJ460870.1		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
AMNH DOT12620	*Zosterops atrifrons*	Indonesia: Sulawesi	Moyle *et al.* (2009)	hapAT01	FJ460809.1	FJ460877.1		
USNM:Birds: 608699	*Zosterops atrifrons*	Papua New Guinea: New Ireland	Schindel *et al.* (2011)				hapAT01	JQ176682
NE10NW03	*Zosterops ceylonensis*	Sri Lanka: Nuwaraeliya, Sandathenna	Wickramasinghe *et al.* (2017)	hapCE01	KY765092	KY765133		
MH14SF03	*Zosterops ceylonensis*	Sri Lanka: Nuwaraeliya, Piduruthalagala	Wickramasinghe *et al.* (2017)	hapCE02	KY765090	KY765131		
WAM 23542	*Zosterops citrinella citrinella*	Indonesia: Roti Is.	Moyle *et al.* (2009)	hapCI01	FJ460815.1	FJ460883.1		
LSUMNS B20626	*Zosterops erythropleurus*	Captive	Moyle *et al.* (2009)	hapER01	FJ460800.1	FJ460868.1		
KT194322	*Zosterops erythropleurus*	East Asia	Li *et al.* (2016)	hapER02	KT194322	KT194322	hapER01	KT194322
NC_027942	*Zosterops erythropleurus*	East Asia	Li *et al.* (2016)	hapER02	NC_027942	NC_027942	hapER01	NC_027942
UWBM 58440	*Zosterops erythropleurus*	Russia: Khabarovskiy Kray, Bogorodskoye, Ozero Udyl	Kerr *et al.* (2009)				hapER01	GQ482919

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
UWBM 47437	*Zosterops erythropleurus*	Russia: Khabarovskiy Kray, Khurmuli	Kerr *et al.* (2009)				hapER02	GQ482918
UWBM 74789	*Zosterops erythropleurus*	Russia: Merkushevka	Kerr *et al.* (2009)				hapER01	GQ482916
UWBM 72103	*Zosterops erythropleurus*	Russia: Primorskiy Kray, Khankayskiy Rayon	Kerr *et al.* (2009)				hapER01	GQ482920
UWBM 72044	*Zosterops erythropleurus*	Russia: Primorskiy Kray, Partizanskiy Rayon, Nakhodka	Kerr *et al.* (2009)				hapER03	GQ482917
LSUMNS B45805	*Zosterops flavifrons*	Vanuatu	Moyle *et al.* (2009)	hapFL01	FJ460805.1	FJ460873.1		
NMNH 2003062	*Zosterops fuscicapilla*	PNG: Louisiade Is.	Moyle *et al.* (2009)	hapFU01	FJ460829.1	FJ460896.1		
NMNH 2003-067	*Zosterops griseotinctus*	PNG: Louisiade Is.	Moyle *et al.* (2009)	hapGR01	FJ460820.1	FJ460888.1		
1A03823	*Zosterops japonicus simplex*	Thailand	Unpublished	hapJA01	KY627660.1	KY627608.1		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
1A08248	*Zosterops japonicus simplex*	Thailand	Unpublished	hapJA02	KY627659.1	KY627607.1		
AMNH DOT10981	*Zosterops japonicus simplex*	Vietnam	Moyle *et al.* (2009)	hapJA03	FJ460801.1	FJ460869.1		
IOZ2538	*Zosterops japonicus simplex*	China: Foping, Shaanxi	Lei *et al.* (2010)				hapJA01	HQ608875
BJNSM 302-10	*Zosterops japonicus loochooensis*	Japan: Amamioshima Is., Kyushu-chiho	Saitoh *et al.* (2015)				hapJA03	AB843294
BJNSM 407-10	*Zosterops japonicus loochooensis*	Japan: Amamioshima Is., Kyushu-chiho	Saitoh *et al.* (2015)				hapJA03	AB843313
BJNSM 304-10	*Zosterops japonicus loochooensis*	Japan: Amamioshima Is., Kyushu-chiho	Saitoh *et al.* (2015)				hapJA17	AB843312
USNM: 641928	*Zosterops japonicus japonicus*	Japan: Chugoku	Unpublished				hapJA04	JF499178.1
USNM: 641812	*Zosterops japonicus japonicus*	Japan: Chugoku, Iwakuni	Unpublished				hapJA02	JF499180.1
USNM: 641891	*Zosterops japonicus japonicus*	Japan: Chugoku, Iwakuni	Unpublished				hapJA03	JF499179.1

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
BJNSM 147-10	*Zosterops japonicus japonicus*	Japan: Hahajima Is., Tokyo, Kanto	Saitoh *et al.* (2015)				hapJA10	AB843291
BJNSM 146-10	*Zosterops japonicus japonicus*	Japan: Hahajima Is., Tokyo, Kanto	Saitoh *et al.* (2015)				hapJA20	AB843293
YIO178-10	*Zosterops japonicus japonicus*	Japan: Honshu, Chiba, Kashiwa-shi	Saitoh *et al.* (2015)				hapJA03	AB843853
YIO324-10	*Zosterops japonicus japonicus*	Japan: Honshu, Shiga, Otsu-shi	Saitoh *et al.* (2015)				hapJA14	AB843848
BJNSM 001-08	*Zosterops japonicus japonicus*	Japan: Ibaraki-ken, Kanto	Saitoh *et al.* (2015)				hapJA03	AB843306
BJNSM 190-10	*Zosterops japonicus japonicus*	Japan: Ikeda-cho, Nakagawa-gun, Hokkaido	Saitoh *et al.* (2015)				hapJA03	AB843305
BJNSM 691-10	*Zosterops japonicus loochooensis*	Japan: Iriomote Is., Okinawa	Saitoh *et al.* (2015)				hapJA03	AB843311
BJNSM 123-10	*Zosterops japonicus loochooensis*	Japan: Iriomotejima Is., Okinawa	Saitoh *et al.* (2015)				hapJA15	AB843320
BJNSM 414-10	*Zosterops japonicus loochooensis*	Japan: Iriomotejima Is., Okinawa	Saitoh *et al.* (2015)				hapJA16	AB843314

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
BJNSM 682-10	*Zosterops japonicus loochooensis*	Japan: Iriomotejima Is., Okinawa	Saitoh *et al.* (2015)				hapJA16	AB843298
BJNSM 678-10	*Zosterops japonicus loochooensis*	Japan: Iriomotejima Is., Okinawa	Saitoh *et al.* (2015)				hapJA19	AB843299
BJNSM 283-10	*Zosterops japonicus loochooensis*	Japan: Ishigakijima Is., Okinawa	Saitoh *et al.* (2015)				hapJA16	AB843316
BJNSM 287-10	*Zosterops japonicus loochooensis*	Japan: Ishigakijima Is., Okinawa	Saitoh *et al.* (2015)				hapJA16	AB843310
YIO354-10	*Zosterops japonicus japonicus*	Japan: Izu Is., Tokyo, Miyake-mura	Saitoh *et al.* (2015)				hapJA08	AB843857
YIO353-10	*Zosterops japonicus japonicus*	Japan: Izu Is., Tokyo, Miyake-mura	Saitoh *et al.* (2015)				hapJA10	AB843847
BJNSM 802-11	*Zosterops japonicus loochooensis*	Japan: Kikai Island, Kyushu-chiho	Saitoh *et al.* (2015)				hapJA10	AB843318
BJNSM 320-10	*Zosterops japonicus loochooensis*	Japan: Kikaijima Is., Kyushu-chiho	Saitoh *et al.* (2015)				hapJA10	AB843302
BJNSM 269-10	*Zosterops japonicus loochooensis*	Japan: Kunigami-gun, Okinawa	Saitoh *et al.* (2015)				hapJA03	AB843300

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
BJNSM 168-10	*Zosterops japonicus loochooensis*	Japan: Kunigami-gun, Okinawa	Saitoh *et al.* (2015)				hapJA10	AB843297
BJNSM 261-10	*Zosterops japonicus loochooensis*	Japan: Kunigami-gun, Okinawa	Saitoh *et al.* (2015)				hapJA10	AB843304
BJNSM 186-10	*Zosterops japonicus japonicus*	Japan: Miyake Is., Tokyo, Kanto	Saitoh *et al.* (2015)				hapJA18	AB843307
BJNSM 661-10	*Zosterops japonicus daitoensis*	Japan: Miyakojima Is., Okinawa	Saitoh *et al.* (2015)				hapJA15	AB843315
YIO271-10	*Zosterops japonicus japonicus*	Japan: Nansei Is., Kagoshima	Saitoh *et al.* (2015)				hapJA13	AB843849
YIO269-10	*Zosterops japonicus loochooensis*	Japan: Nansei Is., Kagoshima, Toshima-mura	Saitoh *et al.* (2015)				hapJA12	AB843851
YIO270-10	*Zosterops japonicus loochooensis*	Japan: Nansei Is., Kagoshima, Kumage-gun, Yaku-cho	Saitoh *et al.* (2015)				hapJA10	AB843850
YIO313-10	*Zosterops japonicus loochooensis*	Japan: Nansei Is., Okinawa, Nago-shi	Saitoh *et al.* (2015)				hapJA10	AB843855
YIO314-10	*Zosterops japonicus loochooensis*	Japan: Nansei Is., Okinawa, Shimajiri-gun, Minamidaito-son	Saitoh *et al.* (2015)				hapJA11	AB843854

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
YIO312-10	*Zosterops japonicus loochooensis*	Japan: Nansei Is., Okinawa, Yaeyama-gun, Taketomi-cho	Saitoh *et al.* (2015)				hapJA09	AB843856
YIO355-10	*Zosterops japonicus japonicus*	Japan: Ogasawara Is., Tokyo, Ogasawara-mura	Saitoh *et al.* (2015)				hapJA10	AB843846
BJNSM 039-08	*Zosterops japonicus loochooensis*	Japan: Okinawa Is.	Saitoh *et al.* (2015)				hapJA10	AB843321
BJNSM 240-10	*Zosterops japonicus loochooensis*	Japan: Okinoerabu Is., Kyushu-chiho	Saitoh *et al.* (2015)				hapJA10	AB843292
YIO183-10	*Zosterops japonicus japonicus*	Japan: Shikoku-chiho, Ehime, Niihama-shi	Saitoh *et al.* (2015)				hapJA03	AB843852
BJNSM 728-11	*Zosterops japonicus japonicus*	Japan: Tokyo, Kanto	Saitoh *et al.* (2015)				hapJA03	AB843309
BJNSM 102-10	*Zosterops japonicus japonicus*	Japan: Tokyo, Kanto	Saitoh *et al.* (2015)				hapJA05	AB843301
BJNSM 100-10	*Zosterops japonicus japonicus*	Japan: Toyama-ken, Honshu	Saitoh *et al.* (2015)				hapJA03	AB843295
BJNSM 830-11	*Zosterops japonicus loochooensis*	Japan: Yonaguni Island, Okinawa	Saitoh *et al.* (2015)				hapJA16	AB843303

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
USNM:Birds: 601336	*Zosterops japonicus*	USA: Hawaii, Kauai Island	Schindel *et al.* (2011)				hapJA07	JQ176683.1
USNM: 643529	*Zosterops japonicus*	USA: Hawaii, Kauai Island, Kauai, North End	Unpublished				hapJA03	JF498910.1
USNM: 643560	*Zosterops japonicus*	USA: Hawaii, Kauai Island, Kauai, North End	Unpublished				hapJA03	JF498908.1
USNM: 643546	*Zosterops japonicus*	USA: Hawaii, Kauai Island, Kauai, North End	Unpublished				hapJA05	JF498909.1
USNM: 643361	*Zosterops japonicus*	USA: Hawaii, Oahu Island, Honolulu	Unpublished				hapJA06	JF498907.1
UWBM 76278	*Zosterops kulambangrae kulambangrae*	Solomon Is.: Kohingo	Moyle *et al.* (2009)	hapKU01	FJ460831.1	FJ460898.1		
UWBM 76258	*Zosterops kulambangrae paradoxus*	Solomon Is.: Rendova	Moyle *et al.* (2009)	HapKU02	FJ460832.1	FJ460899.1		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
UWBM 76356	*Zosterops kulambangrae tetiparius*	Solomon Is.: Tetepare	Moyle *et al.* (2009)	HapKU03	FJ460830.1	FJ460897.1		
KUNHM 6094	*Zosterops lateralis*	Australia	Moyle *et al.* (2009)	hapLA01	FJ460814.1	FJ460882.1		
LSUMNS B45835	*Zosterops lateralis*	Vanuatu	Moyle *et al.* (2009)	hapLA02	FJ460804.1	FJ460872.1		
KC545407	*Zosterops lateralis lateralis*	New Zealand	Gibb *et al.* (2015)	hapLA03	KC545407	KC545407	hapLA01	KC545407
NC_029146	*Zosterops lateralis lateralis*	New Zealand	Gibb *et al.* (2015)	hapLA03	NC_029146	NC_029146	hapLA01	NC_029146
AMNH DOT113	*Zosterops luteirostris*	Solomon Is.: Ghizo Is.	Moyle *et al.* (2009)	hapZL01	FJ460834.1	FJ460901.1		
KUNHM 8904	*Zosterops luteus*	Australia	Moyle *et al.* (2009)	hapLU01	FJ460812.1	FJ460880.1		
FMNH 345980	*Zosterops maderaspatanus maderaspatanus*	Madagascar	Moyle *et al.* (2009)	hapMA01	FJ460813.1	FJ460881.1		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
UWBM 63177	*Zosterops metcalfii*	Solomon Is.: Choiseul	Moyle *et al.* (2009)	hapME01	FJ460817.1	FJ460885.1		
TR21	*Zosterops meyeni exiguus*	Philippines: Rizal, Taytay, Tungtong River	Unpublished				hapME01	KC354959
AMNH DOT12552	*Zosterops montanus montanus*	Indonesia: Sulawesi	Moyle *et al.* (2009)	hapMO01	FJ460810.1	FJ460878.1		
AMNH DOT193	*Zosterops murphyi*	Solomon Is.: Kolombangara	Moyle *et al.* (2009)	hapMU01	FJ460833.1	FJ460900.1		
FMNH 432997	*Zosterops nigrorum*	Philippines: Luzon	Moyle *et al.* (2009)	hapNI01	FJ460808.1	FJ460876.1		
USNM:Birds: 607559	*Zosterops nigrorum innominatus*	Philippines: Luzon	Schindel *et al.* (2011)				hapNI01	JQ176684.2
USNM:Birds: 607560	*Zosterops nigrorum innominatus*	Philippines: Luzon	Schindel *et al.* (2011)				hapNI01	JQ176685.1
NNGP6	*Zosterops nigrorum nigrorum*	Philippines: Negros Occidental, Mt. Kanlaon National Park	Unpublished				hapNI02	KC354960
USNM:Birds: 621682	*Zosterops pallidus*	Swaziland	Schindel *et al.* (2011)				hapPA01	JQ176686.1

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
WAM 23218	*Zosterops palpebrosus unicus*	Indonesia: Flores Is.	Moyle *et al.* (2009)	hapPA01	FJ460807.1	FJ460875.1		
AMNH DOT5746	*Zosterops palpebrosus palpebrosus*	Nepal	Moyle *et al.* (2009)	hapPA02	FJ460806.1	FJ460874.1		
Z51241	*Zosterops palpebrosus egregius*	India: Munnar, Rajamalai Shola	Wickramasinghe *et al.* (2017)	hapPA03	KY765104	KY765144		
Z51227	*Zosterops palpebrosus egregius*	India: Munnar, Signal Station	Wickramasinghe *et al.* (2017)	hapPA04	KY765103	KY765143		
Z51129	*Zosterops palpebrosus*	India: Munnar, Signal Station	Wickramasinghe *et al.* (2017)	hapPA05	KY765102.1	KY765142.1		
Z51123	*Zosterops palpebrosus egregius*	India: Munnar, Rajamalai Shola	Wickramasinghe *et al.* (2017)	hapPA06	KY765101	KY765141		
NE09NW01	*Zosterops palpebrosus egregius*	Sri Lanka: Nuwaraeliya, Sandathenna	Wickramasinghe *et al.* (2017)	hapPA07	KY765095	KY765136		
NE09NW02	*Zosterops palpebrosus egregius*	Sri Lanka: Nuwaraeliya, Sandathenna	Wickramasinghe *et al.* (2017)	hapPA08	KY765096	KY765137		
NF02NW03	*Zosterops palpebrosus egregius*	Sri Lanka: Nuwaraeliya, Maskeliya	Wickramasinghe *et al.* (2017)	hapPA09	KY765097	KY765138		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
IOZ 6424	*Zosterops palpebrosus palpebrosus*	China: Yunnan	Luo *et al.* (2009)				hapPB01	EU447060
KX181886	*Zosterops poliogastrus*	Kenya: Chyulu Hills	Husemann *et al.* (2016)	hapPO01	KX181886	KX181886	hapPO01	KX181886
NC_032059	*Zosterops poliogastrus*	Kenya: Chyulu Hills	Husemann *et al.* (2016)	hapPO01	NC_032059	NC_032059	hapPO01	NC_032059
KUNHM 12803	*Zosterops rendovae rendovae*	Solomon Is.: Makira	Moyle *et al.* (2009)	hapRE01	FJ460836.1	FJ460903.1		
UWBM 69808	*Zosterops rennellianus*	Solomon Is.: Rennel	Moyle *et al.* (2009)	hapZR01	FJ460818.1	FJ460886.1		
KX181887	*Zosterops senegalensis jacksoni*	Kenya: Mt. Nyeri	Husemann *et al.* (2016)	hapSE01	KX181887	KX181887	hapSE01	KX181887
LSUMNS B39250	*Zosterops senegalensis senegalensis*	Ghana	Moyle *et al.* (2009)	hapSE02	FJ460803.1	FJ460871.1		
AMNH DOT171	*Zosterops splendidus*	Solomon Is.: Rannonga	Moyle *et al.* (2009)	hapSP01	FJ460835.1	FJ460902.1		
UWBM 66034	*Zosterops stresemanni*	Solomon Is.: Malaita	Moyle *et al.* (2009)	hapST01	FJ460819.1	FJ460887.1		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
UWBM 58818	*Zosterops superciliosus*	Solomon Is.: Rennell	Moyle *et al.* (2009)	hapWS01	FJ460797.1	FJ460865.1		
AMNH DOT166	*Zosterops vellalavella*	Solomon Is.: Vellalavella	Moyle *et al.* (2009)	hapVE01	FJ460828.1	FJ460895.1		
FMNH 390165	*Zosterops virens*	South Africa	Moyle *et al.* (2009)	hapVI01	FJ460811.1	FJ460879.1		
LSUMNS B36359	*Alcippe brunneicauda eriphaea*	Borneo	Moyle *et al.* (2009)	hapAL01	FJ460770.1	FJ460838.1		
LSUMNS B51361	*Chlorocharis emiliae*	Borneo	Moyle *et al.* (2009)	hapCL01	FJ460796.1	FJ460864.1		
USNM:Birds: 631795	*Cyanoderma chrysaeum chrysaeum*	Myanmar: Kachin	Schindel *et al.* (2011)				hapSZ01	JQ176270.1
LSUMNS B36417	*Cyanoderma bicolor*	Borneo	Moyle *et al.* (2009)	hapSR01	FJ460771.1	FJ460839.1		
USNM:Birds: 631826	*Cyanoderma ruficeps bhamoense*	Myanmar: Kachin	Schindel *et al.* (2011)				hapSR01	JQ176274.1
CMNH 37091	*Dasycrotapha speciosa*	Philippines: Negros	Moyle *et al.* (2009)	hapSS01	FJ460789.1	FJ460857.1		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
USNM:Birds: 620481	*Erpornis zantholeuca zantholeuca*	Myanmar: Sagaing	Schindel *et al.* (2011)				hapYZ01	JQ176672.1
LSUMNS B36460	*Garrulax treacheri*	Borneo	Moyle *et al.* (2009)	hapGM01	FJ460776.1	FJ460844.1		
FMNH 357641	*Heleia goodfellowi*	Philippines: Mindanao	Moyle *et al.* (2009)	hapLG01	FJ460792.1	FJ460860.1		
LSUMNS B51197	*Heleia squamifrons*	Borneo	Moyle *et al.* (2009)	hapOS01	FJ460795.1	FJ460863.1		
AMNH DOT12549	*Heleia squamiceps*	Indonesia: Sulawesi	Moyle *et al.* (2009)	hapLS01	FJ460793.1	FJ460861.1		
WAM 22903	*Heleia wallacei*	Indonesia: Sumba Is.	Moyle *et al.* (2009)	hapWA01	FJ460816.1	FJ460884.1		
FMNH 357652	*Hypocryptadius cinnamomeus*	Philippines: Mindanao	Moyle *et al.* (2009)	hapHC01	FJ460769.1	FJ460837.1		
LSUMNS B39437	*Illadopsis rufipennis extrema*	Ghana	Moyle *et al.* (2009)	hapIR01	FJ460777.1	FJ460845.1		
LSUMNS B36395	*Kenopia striata*	Borneo	Moyle *et al.* (2009)	hapKS01	FJ460775.1	FJ460843.1		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
LSUMNS B36391	*Macronous ptilosus trichorrhos*	Borneo	Moyle *et al.* (2009)	hapMP01	FJ460774.1	FJ460842.1		
LSUMNS B36421	*Malacopteron magnirostre cinereocapilla*	Borneo	Moyle *et al.* (2009)	Hap MM01	FJ460778.1	FJ460846.1		
LSUMNS B36469	*Turdinus crassa*	Borneo	Moyle *et al.* (2009)	hapNC01	FJ460773.1	FJ460841.1		
LSUMNS B36430	*Pellorneum nigrocapitatum*	Borneo	Moyle *et al.* (2009)	hapPC01	FJ460772.1	FJ460840.1		
CMNH 37769	*Sterrhoptilus capitalis*	Philippines: Mindanao	Moyle *et al.* (2009)	hapSC01	FJ460791.1	FJ460859.1		
USNM:Birds: 607459	*Sterrhoptilus dennistouni*	Philippines: Luzon	Schindel *et al.* (2011)				hapSC01	JQ176268.2
CMNH 38201	*Sterrhoptilus dennistouni*	Philippines: Luzon	Moyle *et al.* (2009)	hapSD01	FJ460787.1	FJ460855.1		
USNM:Birds: 631853	*Stachyris nigriceps coltarti*	Myanmar: Kachin	Schindel *et al.* (2011)				hapSN01	JQ176271.1

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
USNM:Birds: 631809	*Stachyris oglei*	Myanmar: Kachin	Schindel *et al.* (2011)				hapSO01	JQ176273.1
AMNH DOT5230	*Yuhina brunneiceps*	Taiwan	Moyle *et al.* (2009)	hapYB01	FJ460782.1	FJ460850.1		
KUNHM 6676	*Yuhina castaniceps plumbeiceps*	China	Moyle *et al.* (2009)	hapYC01	FJ460780.1	FJ460848.1		
KUNHM 11118	*Yuhina diademata*	China	Moyle *et al.* (2009)	hapYD01	FJ460781.1	FJ460849.1		
LSUMNS B36290	*Yuhina everetti*	Borneo	Moyle *et al.* (2009)	hapYE01	FJ460779.1	FJ460847.1		
AMNH DOT5550	*Yuhina flavicollis flavicollis*	Nepal	Moyle *et al.* (2009)	hapYF01	FJ460783.1	FJ460851.1		
IOZ 6448	*Yuhina flavicollis rouxi*	China: Yunnan	Luo *et al.* (2009)				hapYF02	EU447058
USNM:Birds: 620587	*Yuhina flavicollis rouxi*	Myanmar: Chin	Schindel *et al.* (2011)				hapYF01	JQ176667.1
AMNH DOT5639	*Yuhina gularis gularis*	Nepal	Moyle *et al.* (2009)	hapYG01	FJ460784.1	FJ460852.1		

ID	Species	Locality	Source	ND2/ ND3 hap	ND2 Acc.	ND3 Acc.	COI hap	COI Acc.
USNM:Birds: 620615	*Yuhina gularis gularis*	Myanmar: Chin	Schindel *et al.* (2011)				hapYG01	JQ176670.1
AMNH DOT12297	*Yuhina nigrimentas*	Vietnam	Moyle *et al.* (2009)	hapYN01	FJ460785.1	FJ460853.1		
AMNH DOT5588	*Yuhina occipitalis occipitalis*	Nepal	Moyle *et al.* (2009)	hapYO01	FJ460786.1	FJ460854.1		
CMNH 37765	*Zosterornis hypogrammica*	Philippines: Palawan	Moyle *et al.* (2009)	hapSH01	FJ460788.1	FJ460856.1		
CMNH 34221	*Zosterornis latistriata*	Philippines: Panay	Moyle *et al.* (2009)	hapSL01	FJ460790.1	FJ460858.1		
USNM:Birds: 620492	*Enicurus immaculatus*	Myanmar: Sagaing	Schindel *et al.* (2011)				hapEI01	JQ174785.1
LSUMNS B38580	*Enicurus leschenaulti frontalis*	Borneo	Moyle *et al.* (2005)	hapEL01	AY878297	AY878272		
LSUMNS B36442	*Enicurus leschenaulti borneensis*	Borneo	Moyle *et al.* (2005)	hapEL02	AY878291	AY878266		

Table S5.2: Novel primers developed for this study. COI primers used to amplify the full COI region. DOC-ND3-R1 was developed as a match for L10755 (Chesser, 1999) to sequence the whole ND3 region. All other listed primers are internal primers for ND2.

Locus	Primer name	5' to 3' sequence	Direction
COI	DOC-COI-F1	CGATGACTATTCTCAACCAACCA	Forward
COI	DOC-COI-R1	AGTGGCTGATGTGAAGTATGCTC	Reverse
ND2	HMnr-FW	TAAGCTATCGGGCCCATAC	Forward
ND2	HMnr-RW	CTATTCAGCCTAGGTGGGAGA	Reverse
ND2	HMvfar-FW	CCTTCCCTAAACCCTACAC	Forward
ND2	HMv2far-RW	GTTGCATTCAGGAGATG	Reverse
ND2	NHvfar-RW	ATCGAAGCCCATCTGTC	Reverse
ND2	zip_lokF	CCTTCCCTAAACCCTACAC	Forward
ND2	zip_lokR	GTCATTTAGGYAGGAAKCC	Reverse
ND2	zip_lok2F	CTTCCCTAAACCCTACAC	Forward
ND2	zip_lok2R	GTCATTTAGGTAGGAAKCC	Reverse
ND3	DOC-ND3-R1	TTGTTGAGTCGAAATCAACTG	Reverse

Table S5.3: Summary table of the taxa used in the ND2/ND3 phylogenetic analysis.

Species	Family	Number of samples
Enicurus leschenaulti	Muscicapidae	2
Hypocryptadius cinnamomeus	Passeridae	1
Alcippe brunneicauda	Leiotrichidae	1
Garrulax treacheri	Leiotrichidae	1
Illadopsis rufipennis	Pellorneidae	1
Kenopia striata	Pellorneidae	1
Malacopteron magnirostre	Pellorneidae	1
Pellorneum nigrocapitatum	Pellorneidae	1
Cyanoderma bicolor	Timaliidae	1
Macronous ptilosus	Timaliidae	1
Turdinus crassa	Timaliidae	1
Chlorocharis emiliae	Zosteropidae	1
Dasycrotapha speciosa	Zosteropidae	1
Heleia wallacei	Zosteropidae	1
Heleia goodfellowi	Zosteropidae	1
Heleia squamiceps	Zosteropidae	1
Heleia squamifrons	Zosteropidae	1
Sterrhoptilus capitalis	Zosteropidae	1
Sterrhoptilus dennistouni	Zosteropidae	1
Yuhina brunneiceps	Zosteropidae	1
Yuhina castaniceps	Zosteropidae	1
Yuhina diademata	Zosteropidae	1
Yuhina everetti	Zosteropidae	1
Yuhina flavicollis	Zosteropidae	1
Yuhina gularis	Zosteropidae	1
Yuhina nigrimentas	Zosteropidae	1
Yuhina occipitalis	Zosteropidae	1
Zosterops atricapilla	Zosteropidae	1
Zosterops atrifrons	Zosteropidae	1
Zosterops ceylonensis	Zosteropidae	2
Zosterops chloris	Zosteropidae	37

Species	Family	Number of samples
Zosterops citrinella	Zosteropidae	1
Zosterops consobrinorum	Zosteropidae	16
Zosterops erythropleurus	Zosteropidae	3
Zosterops flavifrons	Zosteropidae	1
Zosterops flavilateralis	Zosteropidae	2
Zosterops fuscicapilla	Zosteropidae	1
Zosterops griseotinctus	Zosteropidae	1
Zosterops japonicus	Zosteropidae	3
Zosterops kulambangrae	Zosteropidae	3
Zosterops lateralis	Zosteropidae	4
Zosterops luteirostris	Zosteropidae	1
Zosterops luteus	Zosteropidae	1
Zosterops maderaspatanus	Zosteropidae	1
Zosterops metcalfii	Zosteropidae	1
Zosterops montanus	Zosteropidae	1
Zosterops murphyi	Zosteropidae	1
Zosterops nigrorum	Zosteropidae	1
Zosterops palpebrosus	Zosteropidae	9
Zosterops poliogastrus	Zosteropidae	2
Zosterops rendovae	Zosteropidae	1
Zosterops rennellianus	Zosteropidae	1
Zosterops senegalensis	Zosteropidae	2
Zosterops sp. nov. 'Wangi-wangi White-eye'	Zosteropidae	4
Zosterops splendidus	Zosteropidae	1
Zosterops stresemanni	Zosteropidae	1
Zosterops superciliosus	Zosteropidae	1
Zosterops vellalavella	Zosteropidae	1
Zosterops virens	Zosteropidae	1
Zosterornis hypogrammica	Zosteropidae	1
Zosterornis latistriata	Zosteropidae	1

Table S5.4: Summary table of the taxa used in the COI phylogenetic analysis.

Species	Family	Number of samples
Enicurus immaculatus	Muscicapidae	1
Cyanoderma chrysaeum	Timaliidae	1
Cyanoderma ruficeps	Timaliidae	1
Stachyris nigriceps	Timaliidae	1
Stachyris oglei	Timaliidae	1
Erpornis zantholeuca	Vireonidae	1
Sterrhoptilus dennistouni	Zosteropidae	1
Yuhina flavicollis	Zosteropidae	2
Yuhina gularis	Zosteropidae	1
Zosterops atrifrons	Zosteropidae	1
Zosterops chloris	Zosteropidae	19
Zosterops consobrinorum	Zosteropidae	7
Zosterops erythropleurus	Zosteropidae	7
Zosterops flavilateralis	Zosteropidae	1
Zosterops japonicus	Zosteropidae	48
Zosterops lateralis	Zosteropidae	2
Zosterops meyeni	Zosteropidae	1
Zosterops nigrorum	Zosteropidae	3
Zosterops pallidus	Zosteropidae	1
Zosterops palpebrosus	Zosteropidae	1
Zosterops poliogastrus	Zosteropidae	2
Zosterops senegalensis	Zosteropidae	1
Zosterops sp. nov. 'Wangi-wangi White-eye'	Zosteropidae	4

Table S5.5: Phylogenetic models used and summary statistics for each codon. Model abbreviations: GTR - General Time Reversible, HKY - Hasegawa-Kishino-Yano, K80 - Kimura 2-parameter. Other abbreviations: G - gamma, I - invariant sites. Four gamma categories were used where a gamma shape estimate was implemented.

Locus	Aligned Length	Position	Substitution Model	T, C, A, G Frequency	Variable Sites	Parsimony Informative Sites
ND2 + ND3	1041 + 351	ND2 codon position 1	GTR + G + I	0.19, 0.293, 0.359, 0.163	176	143
		ND2 codon position 2	HKY + G + I	0.38, 0.356, 0.165, 0.095	81	67
		ND2 codon position 3	GTR + G + I	0.14, 0.386, 0.425, 0.049	340	326
		ND3 codon position 1	K80 + G	0.21, 0.317, 0.269, 0.205	52	39
		ND3 codon position 2	HKY + I	0.44, 0.261, 0.177, 0.12	23	17
		ND3 codon position 3	HKY + G	0.12, 0.399, 0.438, 0.044	113	106
COI	615	COI codon position 1	K80	0.15, 0.289, 0.244, 0.317	20	6
		COI codon position 2	HKY	0.41, 0.293, 0.156, 0.136	2	2
		COI codon position 3	HKY + G	0.16, 0.382, 0.411, 0.049	181	149

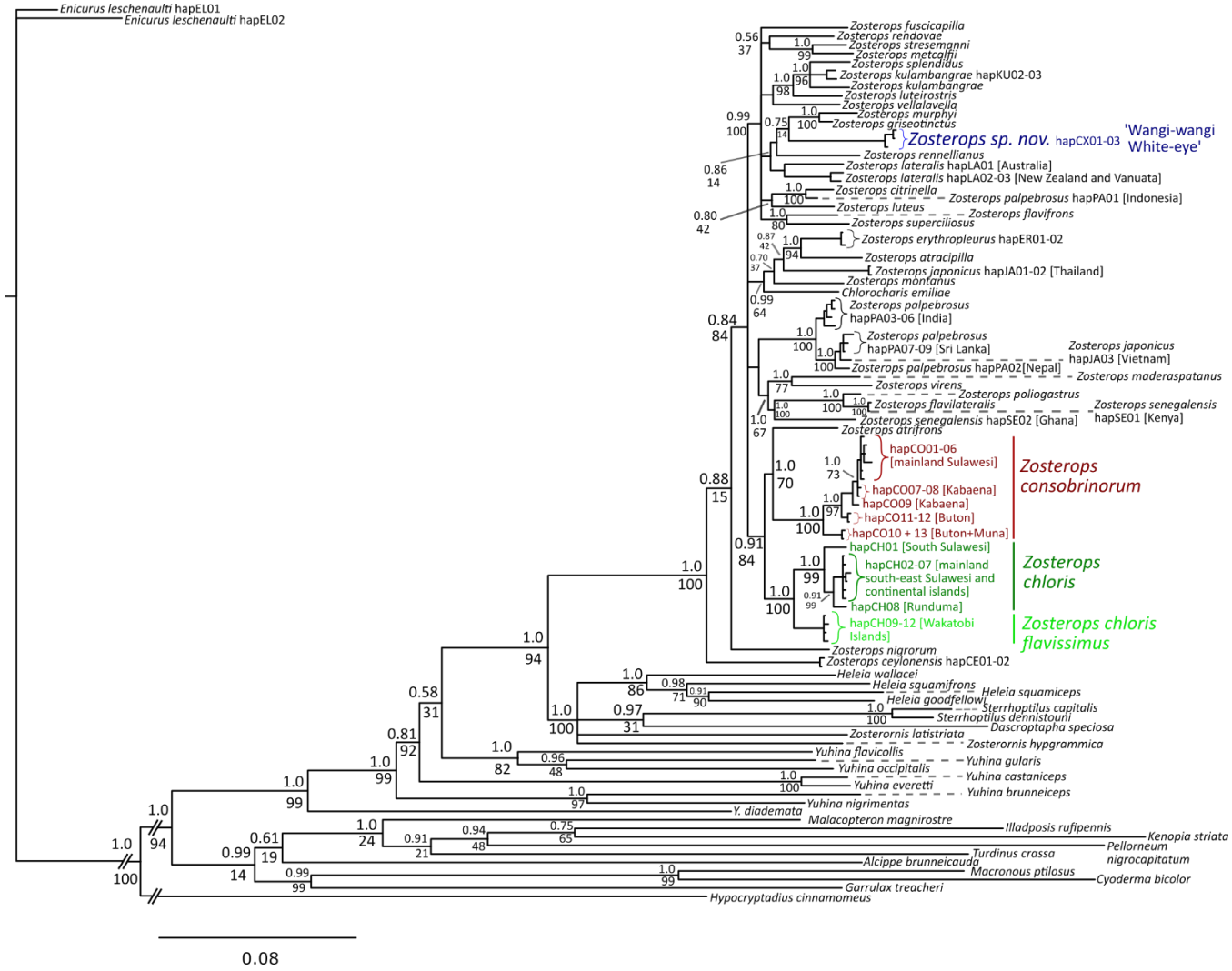

Figure S5.1: full Bayesian consensus tree for concatenated ND2/ND3 haplotypes, showing Bayesian posterior probabilities (above) and bootstrap values (below).

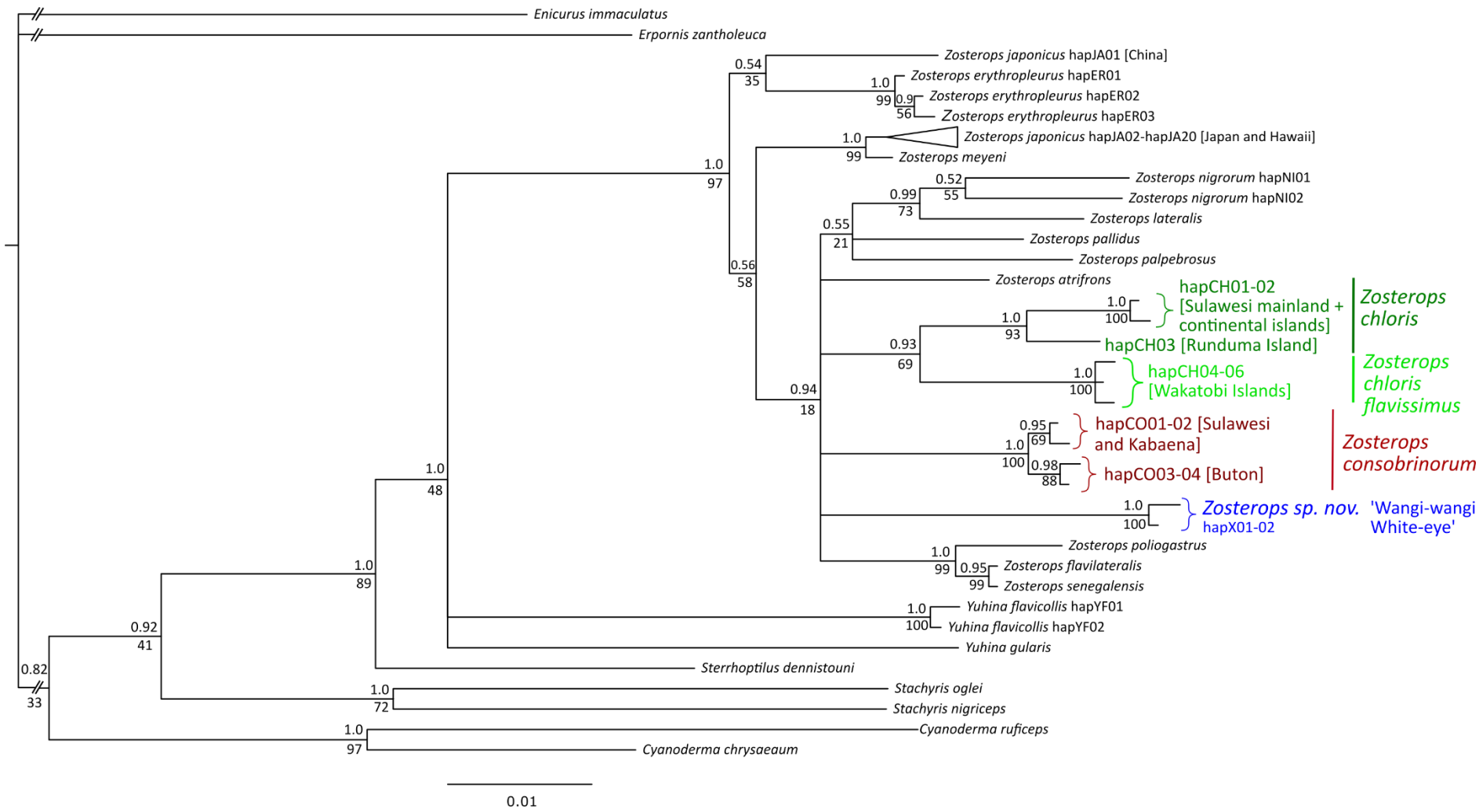

Figure S5.2: full Bayesian consensus tree for COI haplotypes, showing Bayesian posterior probabilities (above) and bootstrap values (below). Core *Z. japonicus* lineage collapsed as they were monophyletic.

Table S5.6: ND2 pairwise percentage distances between the *Zosterops* clades in this study. Mean pairwise distances are reported for taxa with more than one sample. Numbers along the top correspond to species listed in the row on the far left.

	1.	**2.**	**3.**	**4.**	**5.**	**6.**	**7.**	**8.**	**9.**	**10.**	**11.**	**12.**
1. *Z. fuscicapilla*	-											
2. *Z. erythtopleurus*	6.5	-										
3. *Z. palpebrosus*	6.1	6.0	-									
4. *Z. ceylonensis*	8.0	7.5	6.7	-								
5. *Z. japonicus*	7.3	5.9	5.3	7.6	-							
6. *Z. rendovae*	4.9	6.2	5.5	7.2	6.9	-						
7. *Z. splendidus*	5.4	6.2	5.6	7.4	6.6	4.7	-					
8. *Z. luteirostris*	5.6	6.0	5.4	7.5	6.8	4.8	3.5	-				
9. *Z. murphyi*	5.2	6.5	5.8	7.7	7.1	5.0	4.9	5.1	-			
10. *Z. kulambangrae*	6.2	6.2	5.8	8.3	7.0	4.5	2.8	3.6	5.5	-		
11. *Z. stresemanni*	5.4	6.5	5.9	7.6	7.3	4.1	5.3	5.3	5.7	5.7	-	
12. *Z. rennellianus*	5.6	6.5	5.9	8.1	7.7	5.7	5.4	5.0	5.6	5.8	6.0	-
13. *Z. metcalfii*	5.8	6.1	6.1	7.3	7.1	4.5	5.7	5.5	5.7	5.8	2.4	6.2
14. *Z. citrinellus*	5.3	5.5	4.8	7.5	6.7	4.4	5.4	4.8	4.9	5.8	5.4	5.5
15. *Z. lateralis*	5.4	5.9	5.4	7.4	7.0	5.0	4.9	4.8	5.2	5.6	5.4	5.1

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
16. *Z. maderaspatanus*	6.6	6.3	5.5	7.6	7.4	5.6	6.7	6.3	6.8	6.9	6.4	6.9
17. *Z. luteus*	5.2	5.4	5.0	6.9	6.6	3.8	5.1	4.9	5.3	5.3	4.6	5.6
18. *Z. virens*	6.8	5.6	6.0	8.3	7.7	6.5	6.5	6.9	7.2	7.1	6.6	6.7
19. *Z. montanus*	6.8	4.7	5.6	7.0	6.1	5.5	6.3	6.1	6.3	6.5	6.7	6.8
20. *Z. atrifrons*	6.1	5.8	5.4	8.6	7.0	5.5	6.5	6.1	6.1	6.7	6.2	5.9
21. *Z. nigrorum*	6.8	7.0	6.3	7.6	7.7	6.6	7.1	6.5	6.8	7.2	6.4	7.2
22. *Z. poliogastrus*	6.4	6.0	5.5	8.0	7.2	5.9	6.1	6.0	6.5	6.3	5.8	6.2
23. *Z. flavilateralis*	6.6	3.1	5.9	7.8	6.7	6.3	6.1	5.9	6.9	6.3	6.5	6.5
24. *Z. senegalensis*	6.6	6.0	5.5	8.2	7.2	6.0	5.8	5.8	6.8	6.3	6.4	6.2
25. *Z. chloris intermedius* 'South Sulawesi'	5.9	6.0	5.4	7.2	6.8	5.1	6.0	5.5	5.4	6.3	6.0	6.1
26. *Z. flavifrons*	5.4	5.9	5.4	8.5	6.9	4.7	5.4	5.0	5.7	5.6	5.2	5.6
27. *Z. atricapilla*	6.6	3.2	5.6	7.1	5.8	5.7	6.0	5.8	6.1	6.4	5.9	5.9
28. *Z. griseotinctus*	5.3	5.7	5.5	7.5	6.7	4.2	4.5	4.6	1.9	4.6	5.2	4.6
29. *Chlorocharis emiliae*	6.5	5.5	6.1	8.2	6.6	6.0	6.5	5.6	6.0	6.9	6.8	6.8

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
30. *Z. superciliosa*	5.8	5.7	5.9	8.1	7.2	5.2	5.8	5.4	6.4	6.2	6.0	5.8
31. *Z. chloris* 'mainland South-east Sulawesi and continental islands'	6.2	5.9	5.4	7.0	6.6	5.6	6.0	5.5	5.2	6.1	6.1	6.2
32. *Z. chloris* 'Runduma'	6.0	5.7	5.3	7.1	6.6	5.5	5.8	5.7	5.1	6.1	5.9	5.8
33. *Z. chloris flavissimus* 'Wakatobi Islands'	5.8	5.5	4.9	7.1	6.4	5.1	5.7	5.3	5.3	6.0	5.1	5.8
34. *Z. consobrinorum* 'Sulawesi'	6.4	6.6	5.6	8.5	7.7	5.4	6.6	6.2	6.7	7.1	7.0	6.3
35. *Z. consobrinorum* 'Kabaena'	6.3	6.4	5.7	8.5	7.7	5.3	6.5	6.1	6.6	6.9	7.0	6.2
36. *Z. consobrinorum* 'Buton and Muna'	6.2	5.8	5.4	7.9	7.4	5.4	6.3	6.1	6.1	7.0	6.8	6.2
37. *Zos. sp. nov.* 'Wangi-wangi White-eye'	7.0	6.7	6.6	8.3	7.9	6.3	5.9	5.9	5.8	6.5	7.3	6.9

	13.	**14.**	**15.**	**16.**	**17.**	**18.**	**19.**	**20.**	**21.**	**22.**	**23.**	**24.**
13. *Z. metcalfii*	-											
14. *Z. citrinellus*	5.2	-										
15. *Z. lateralis*	5.7	4.8	-									
16. *Z. maderaspatanus*	6.8	6.4	6.7	-								
17. *Z. luteus*	4.6	3.8	4.9	6.6	-							
18. *Z. virens*	7.0	6.5	6.0	5.1	6.4	-						
19. *Z. montanus*	6.4	5.5	6.0	6.0	5.5	6.7	-					
20. *Z. atrifrons*	6.2	5.7	6.1	7.4	5.9	6.9	6.3	-				
21. *Z. nigrorum*	6.8	6.2	6.9	7.6	6.5	7.5	7.2	6.8	-			
22. *Z. poliogastrus*	6.3	5.5	5.8	6.2	5.3	5.2	6.3	6.7	6.2	-		
23. *Z. flavilateralis*	6.5	5.7	6.2	6.3	5.5	5.8	5.6	6.4	6.9	3.9	-	
24. *Z. senegalensis*	6.6	5.8	6.2	5.6	5.7	5.8	6.5	6.4	6.9	3.5	4.4	-
25. *Z. chloris intermedius* 'South Sulawesi'	6.2	4.8	5.5	6.8	5.4	6.4	5.6	4.7	6.0	6.3	6.2	6.1
26. *Z. flavifrons*	5.6	4.7	4.9	6.1	5.0	5.6	6.3	6.2	6.4	5.2	5.8	5.8
27. *Z. atricapilla*	5.4	5.3	5.4	6.1	5.0	6.0	4.9	6.3	6.9	6.2	4.9	6.2

	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
28. *Z. griseotinctus*	4.7	4.1	4.5	6.3	4.3	6.2	5.9	6.0	6.5	5.7	6.1	6.1
29. *Chlorocharis emiliae*	6.7	6.0	6.2	7.2	6.1	7.5	5.2	6.1	6.7	6.7	6.3	6.7
30. *Z. superciliosa*	6.0	5.4	4.8	6.8	4.9	6.7	5.0	6.0	7.1	6.1	6.1	6.
31. *Z. chloris* 'mainland South-east Sulawesi and continental islands'	6.3	4.8	5.5	6.8	5.2	6.2	5.8	4.8	5.8	5.7	5.9	5.8
32. *Z. chloris* 'Runduma'	6.1	4.7	5.3	6.7	5.1	5.9	5.5	4.6	5.6	5.5	5.8	5.7
33. *Z. chloris flavissimus* 'Wakatobi Islands'	5.7	4.9	4.8	6.1	4.9	6.1	5.1	4.5	5.5	5.8	5.9	5.8
34. *Z. consobrinorum* 'Sulawesi'	7.2	6.0	6.1	7.3	6.1	7.1	7.3	4.5	6.3	6.7	6.8	6.5
35. *Z. consobrinorum* 'Kabaena'	7.1	5.8	6.0	7.4	5.9	7.0	7.2	4.4	6.2	6.6	6.7	6.4
36. *Z. consobrinorum* 'Buton and Muna'	6.9	4.5	5.9	7.0	5.8	6.7	6.3	5.1	5.9	6.3	6.2	6.3
37. *Zos. sp. nov.* 'Wangi-wangi White-eye'	7.3	5.3	6.1	7.6	6.1	7.3	6.5	7.0	7.3	7.4	7.1	7.2

	25.	26.	27.	28.	29.	30.	31.	32.	33.	34.	35.	36.	37.
25. *Z. chloris intermedius* 'South Sulawesi'	-												
26. *Z. flavifrons*	5.8	-											
27. *Z. atricapilla*	5.9	5.7	-										
28. *Z. griseotinctus*	5.1	5.0	5.7	-									
29. *Chlorocharis emiliae*	5.5	6.5	5.8	6.1	-								
30. *Z. superciliosa*	6.3	4.4	5.7	5.6	6.7	-							
31. *Z. chloris* 'mainland South-east Sulawesi and continental islands'	1.2	5.9	5.5	4.9	6.0	5.9	-						
32. *Z. chloris* 'Runduma'	1.3	5.7	5.2	4.8	5.8	5.7	0.7	-					
33. *Z. chloris flavissimus* 'Wakatobi Islands'	2.0	5.5	5.4	5.0	5.6	6.0	2.5	2.3	-				
34. *Z. consobrinorum* 'Sulawesi'	4.6	5.7	7.2	6.4	6.9	6.4	5.0	4.9	4.5	-			

	25.	26.	27.	28.	29.	30.	31.	32.	33.	34.	35.	36.	37.
35. *Z. consobrinorum* 'Kabaena'	4.4	5.7	7.0	6.2	6.8	6.5	4.9	4.8	4.4	0.3	-		
36. *Z. consobrinorum* 'Buton and Muna'	4.2	5.5	6.0	5.6	6.4	6.3	4.7	4.5	4.6	2.1	1.9	-	
37. *Zos. sp. nov.* 'Wangi-wangi White-eye'	5.2	6.5	6.3	5.1	7.0	7.2	5.3	5.6	5.9	7.2	7.1	6.2	-

Table S5.7: COI pairwise percentage distances between the *Zosterops* clades in this study. Mean pairwise distances are reported for taxa with more than one sample. Numbers along the top correspond to species listed in the row on the far left.

	1.	**2.**	**3.**	**4.**	**5.**	**6.**	**7.**	**8.**	**9.**	**10.**	**11.**	**12.**	**13.**	**14.**	**15.**	**16.**	**17.**
1. *Z. chloris* 'mainland South-east Sulawesi and continental islands'	-																
2. *Z. chloris* 'Runduma'	2.2	-															
3. *Z. chloris flavissimus* 'Wakatobi Islands'	4.9	4.7	-														
4. *Z. consobrinorum* 'Sulawesi and Kabaena'	6.2	6.6	5.5	-													
5. *Z. consobrinorum* 'Buton'	6.4	6.7	5.7	0.6	-												
6. *Zos. sp. nov.* 'Wangi-wangi White-eye'	7.2	7.5	7.7	8.4	8.5	-											

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.
7. *Z. japonicus*	6.3	5.1	6.4	5.9	6.1	7.3	-										
8. *Z. nigrorum*	7.1	6.4	7.1	6.2	6.5	8.7	6.3	-									
9. *Z. meyeni*	5.9	4.7	6.4	5.9	6.1	6.8	0.7	6.2	-								
10. *Z. pallidus*	6.6	6.5	6.5	6.8	7.0	7.1	5.9	5.8	5.7	-							
11. *Z. erythtopleurus*	6.6	5.8	7.1	5.8	6.1	7.6	4.2	5.7	3.9	5.9	-						
12. *Z. atrifrons*	5.8	5.0	6.0	5.0	5.4	6.9	4.5	6.4	4.2	5.7	4.8	-					
13. *Z. palpebrosus*	7.6	6.3	7.2	6.3	6.9	7.9	5.7	6.0	5.5	5.1	5.7	5.4	-				
14. *Z. flavilateralis*	6.5	5.9	5.8	5.0	5.1	7.7	4.9	5.2	5.1	4.4	5.5	5.2	5.3	-			
15. *Z. senegalensis*	6.5	5.9	5.8	5.0	5.1	7.7	4.9	5.2	5.1	4.4	5.5	5.2	5.3	0	-		
16. *Z. poliogastrus*	7.6	6.5	7.0	5.5	5.6	8.6	5.6	5.9	5.8	5.0	5.7	6.4	6.4	1.7	1.7	-	
17. *Z. lateralis*	7.0	6.2	6.8	5.6	6.2	7.5	5.9	4.2	6.1	6.2	5.8	4.8	5.9	6.6	6.0	6.6	-

Table S5.8: A summary of the morphological data used for the *Zosterops chloris* "mainland" population, showing mean figures ± standard error.

Variable	***Zosterops chloris* "mainland South-east Sulawesi"**				
	Sulawesi (*N* = 105)	Buton (*N* = 9)	Muna (*N* = 19)	Kabaena (*N* = 35)	Runduma (*N* = 45)
Wing length (mm)	58.8 ± 0.12	59.28 ± 0.26	56.74 ± 0.3	58.84 ± 0.36	59.16 ± 0.19
Tail length (mm)	41.39 ± 0.14	42.06 ± 0.29	40.58 ± 0.31	42.6 ± 0.24	42.57 ± 0.18
Tarsus length (mm)	17.09 ± 0.01	17.08 ± 0.21	16.76 ± 0.11	17.34 ± 0.09	17.88 ± 0.08
Bill length (mm)	14.37 ± 0.06	14.81 ± 0.23	14.70 ± 0.14	15.17 ± 0.13	15.55 ± 0.11
Skull length (mm)	14.87 ± 0.06	14.83 ± 0.26	14.28 ± 0.11	14.85 ± 0.11	14.59 ± 0.11
Bill depth (mm)	2.79 ± 0.01	2.88 ± 0.06	2.64 ± 0.03	2.91 ± 0.03	3.06 ± 0.02
Weight (g)	11.26 ± 0.06	11.47 ± 0.18	10.27 ± 0.13	11.2 ± 0.1	9.91 ± 0.09

Table S5.9: A summary of the morphological data used for the *Zosterops chloris* "Wakatobi" population, showing mean figures ± standard error.

Variable	***Zosterops chloris* "Wakatobi"**					
	Wangi-wangi (*N* = 47)	Oroho (*N* = 5)	Kaledupa (*N* = 83)	Tomia (*N* = 153)	Lintea Selatan (*N* = 21)	Binongko (*N* = 53)
Wing length (mm)	53.21 ± 0.21	52.8 ± 0.58	56.14 ± 0.14	54.29 ± 0.11	54.62 ± 0.32	55.85 ± 0.2
Tail length (mm)	37.55 ± 0.17	38.8 ± 0.66	39.45 ± 0.13	38.9 ± 0.11	39.48 ± 0.31	40.48 ± 0.17
Tarsus length (mm)	16.66 ± 0.09	16.28 ± 0.2	16.66 ± 0.06	16.7 ± 0.05	16.51 ± 0.12	16.5 ± 0.1
Bill length (mm)	13.32 ± 0.1	13.74 ± 0.21	13.72 ± 0.06	13.83 ± 0.04	13.72 ± 0.16	13.85 ± 0.09
Skull length (mm)	14.75 ± 0.09	14.4 ± 0.15	14.65 ± 0.06	14.48 ± 0.05	14.67 ± 0.1	14.61 ± 0.08
Bill depth (mm)	2.65 ± 0.02	2.78 ± 0.04	2.66 ± 0.01	2.64 ± 0.01	2.71 ± 0.03	2.82 ± 0.02
Weight (g)	9.42 ± 0.09	8.8 ± 0.07	9.78 ± 0.07	9.34 ± 0.04	8.69 ± 0.13	9.39 ± 0.07

Table S5.10: A summary of the morphological data used for *Zosterops consobrinorum*, showing mean figures ± standard error.

Variable	***Zosterops consobrinorum***			
	Sulawesi (*N* = 48)	Buton (*N* = 37)	Muna (*N* = 31)	Kabaena (*N* = 23)
Wing length (mm)	53.24 ± 0.16	54.3 ± 0.2	52.87 ± 0.27	56.87 ± 0.54
Tail length (mm)	37.55 ± 0.21	38.19 ± 0.2	38.45 ± 0.27	41.7 ± 0.48
Tarsus length (mm)	14.49 ± 0.08	14.94 ± 0.1	14.28 ± 0.09	15.83 ± 0.11
Bill length (mm)	13.35 ± 0.09	13.46 ± 0.11	13.21 ± 0.1	14.21 ± 0.13
Skull length (mm)	13.64 ± 0.06	13.55 ± 0.06	13.35 ± 0.08	14.15 ± 0.11
Bill depth (mm)	2.77 ± 0.02	2.79 ± 0.03	2.63 ± 0.03	2.99 ± 0.05
Weight (g)	8.91 ± 0.07	9.62 ± 0.08	8.45 ± 0.09	10.91 ± 0.18

Table S5.11: A summary of the morphological data used for the *Zosterops sp. nov.* "Wangi-wangi White-eye", showing mean figures ± standard error.

Variable	***Zosterops sp. nov.* "Wangi-wangi White-eye"**
	Wangi-wangi (*N* = 38)
Wing length (mm)	62.99 ± 0.24
Tail length (mm)	46.22 ± 0.21
Tarsus length (mm)	19.36 ± 0.07
Bill length (mm)	17.25 ± 0.11
Skull length (mm)	15.89 ± 0.1
Bill depth (mm)	3.41 ± 0.03
Weight (g)	14.51 ± 0.13

Table S5.12: Summary of the loading of the different variables in the PCs with eigenvalues >1 in the morphology PCAs and the proportion of the variance these PCs explained.

Variable	***Zosterops chloris***		***Zosterops consobrinorum* and 'Wangi-wangi White-eye'**
	PC1	PC2	PC1
Wing length	-0.474	0.089	-0.386
Tail length	-0.447	0.008	-0.374
Tarsus length	-0.351	-0.074	-0.386
Bill length	-0.370	-0.539	-0.379
Skull length	-0.111	0.814	-0.368
Bill depth	-0.381	0.048	-0.363
Weight	-0.398	0.177	-0.390
Proportion of variance	**78.3%**	**8.3%**	**88.7%**

Table S5.13: A summary of the song data used for the *Zosterops chloris* "mainland" population, showing mean figures ± standard error.

Variable	***Zosterops chloris* "mainland South-east Sulawesi"**			
	Sulawesi (*N* = 8)	Buton (*N* = 7)	Muna (*N* = 4)	Kabaena (*N* = 5)
Notes (n)	12.54 ± 0.4	11.29 ± 0.33	10.17 ± 0.33	10.35 ± 0.44
Duration (s)	2.16 ± 0.16	1.98 ± 0.09	1.58 ± 0.07	2.17 ± 0.21
Pace (Notes/Duration)	5.94 ± 0.32	5.75 ± 0.27	6.5 ± 0.35	4.93 ± 0.46
Maximum frequency (kHz)	5.58 ± 0.24	6.42 ± 0.24	5.74 ± 0.24	5.56 ± 0.17
Minimum frequency (kHz)	2.04 ± 0.09	2.19 ± 0.11	2.34 ± 0.08	1.94 ± 0.15
Bandwidth (kHz)	3.54 ± 0.18	4.23 ± 0.25	3.4 ± 0.32	3.62 ± 0.16
Peak frequency (kHz)	4.38 ± 0.12	4.59 ± 0.19	4.05 ± 0.19	4.64 ± 0.1

Table S5.14: A summary of the song data used for the *Zosterops chloris* "Wakatobi" population, showing mean figures ± standard error.

Variable	***Zosterops chloris* "Wakatobi"**		
	Wangi-wangi (*N* = 15)	Kaledupa (*N* = 11)	Tomia (*N* = 2)
Notes (n)	13.76 ± 0.33	14.19 ± 0.31	16.33 ± 2.33
Duration (s)	2.46 ± 0.16	2.44 ± 0.09	2.4 ± 0.4
Pace (Notes/Duration)	5.80 ± 0.24	5.86 ± 0.13	6.82 ± 0.18
Maximum frequency (kHz)	7.39 ± 0.13	7.22 ± 014	6.54 ± 0.51
Minimum frequency (kHz)	2.27 ± 0.04	2.03 ± 0.05	2.06 ± 0.03
Bandwidth (kHz)	5.13 ± 0.14	5.19 ± 0.17	4.48 ± 0.54
Peak frequency (kHz)	4.68 ± 0.19	4.69 ± 0.12	4.92 ± 0.82

Table S5.15: A summary of the song data used for the *Zosterops chloris maxi* Lombok population, showing mean figures ± standard error.

Variable	***Zosterops chloris maxi***
	Lombok (*N* = 2)
Notes (n)	18.5 ± 1.3
Duration (s)	3.6 ± 0.46
Pace (Notes/Duration)	5.18 ± 0.3
Maximum frequency (kHz)	6.55 ± 0.12
Minimum frequency (kHz)	1.62 ± 0.01
Bandwidth (kHz)	4.93 ± 0.11
Peak frequency (kHz)	4.64 ± 0.16

Table S5.16: A summary of the song data used for *Zosterops consobrinorum*, showing mean figures ± standard error.

Variable	***Zosterops consobrinorum***			
	Sulawesi (*N* = 11)	Buton (*N* = 27)	Muna (*N* = 4)	Kabaena (*N* = 27)
Notes (n)	7.8 ± 0.12	7.73 ± 0.13	8.48 ± 0.34	8.29 ± 0.11
Duration (s)	1.41 ± 0.05	1.38 ± 0.04	1.42 ± 0.06	1.45 ± 0.04
Pace (Notes/Duration)	5.6 ± 0.19	5.67 ± 0.14	6.0 ± 0.29	5.81 ± 0.14
Maximum frequency (kHz)	6.91 ± 0.21	6.5 ± 0.1	6.03 ± 0.25	6.89 ± 0.1
Minimum frequency (kHz)	2.57 ± 0.05	2.53 ± 0.04	2.47 ± 0.14	2.45 ± 0.03
Bandwidth (kHz)	4.34 ± 0.23	3.97 ± 0.12	3.56 ± 0.38	4.44 ± 0.09
Peak frequency (kHz)	4.57 ± 0.2	4.48 ± 0.09	4.57 ± 0.14	4.59 ± 0.08

Table S5.17: Summary of the loading of the different variables in the PCs with eigenvalues >1 in the song PCAs and the proportion of the variance these PCs explained.

Variable	***Zosterops chloris***			***Zosterops consobrinorum***		
	PC1	PC2	PC3	PC1	PC2	PC3
Notes	-0.471	0.163	0.286	0.354	-0.306	-0.455
Duration	-0.415	0.535	-0.093	0.473	0.302	-0.385
Pace	0.124	-0.586	0.434	-0.312	-0.606	0.141
Maximum frequency	-0.495	-0.344	-0.247	0.454	-0.028	0.582
Minimum frequency	0.082	-0.245	-0.805	-0.302	0.388	0.311
Bandwidth	-0.528	-0.282	-0.024	0.505	-0.144	0.433
Peak frequency	-0.245	-0.294	0.109	-0.04	0.526	0.038
Proportion of variance	**39.8%**	**24.0%**	**16.4%**	**41.7%**	**21.8%**	**16.2%**

5.1. Detailed Tobias scoring for potentially novel white-eye species

Defining the line between a species and a subspecies presents conceptual and practical problems. While molecular methods are often used for species delimitation (Irestedt *et al.* 2013; Andersen *et al.* 2015) and some attempts have been made to provide guidelines for the level of genetic divergence expected between species (Hebert *et al.* 2004), relying on molecular methods alone can be problematic. Other features generally should be consulted, particularly plumage and song as these are of vital importance in maintaining reproductive isolation (Uy *et al.* 2009).

Due to these concerns, the Handbook of the Birds of the World and Birdlife International have been employing the Tobias criteria in their taxonomic revisions (https://www.hbw.com/taxonomic-scoring-system). This is a scoring system based on Tobias *et al.* (2010) which provides quantitative criteria for species delimitation based solely on phenotypic differences (i.e. differences in plumage, morphology, and vocalizations) which are scored as minor (1), medium (2), major (3) and exceptional (4), depending on their perceived degree of strength. Co-varying differences (e.g. longer wing length and proportionately longer bill size) can be scored only once, so only the trait with the largest difference in each category can be included. Up to three differences in plumage and/or bare parts can be included. Quantitative traits are scored using Cohen's d effect size statistic. Scoring is carried out as follows:

- A *minor* difference (1) involves weak divergence in a plumage or morphology character, in the form of a slightly different wash or suffusion on an area of feathering or on a bare part (although minor differences in bare part coloration are either not common or infrequently detected). A minor morphology or vocal character is one in which the effect size is 0.2–1.99.
- A *medium* difference (2) involves a distinctly different tone (shade: light yellow vs dusky yellow, etc.) on an area of feathering or bare part. A medium morphology or vocal character is one in which the effect size is 2–4.99.
- A *major* difference (3) involves a contrastingly different hue (colour: e.g. white vs yellow) on an area of feathering or bare part, and/or the presence of an entirely different patterning (such as strong spotting *vs* strong stripes). A strong morphology or vocal character is one in which the effect size is 5–9.99.
- An *exceptional* difference (4) involves a radically different coloration or pattern (a striking contrast in colours or shapes) applying to the majority of the plumage area, or

any trait directly involved in courtship and mate choice. An exceptional morphology or vocal character is one in which the effect size is 10 or more.

A taxon must reach a score of 7 to be considered for designation as a separate species. Here we present a Tobias scoring for the *Z. c. flavissimus* population (confined to the Wakatobi Islands), comparing it to the nearest population of Lemon-bellied White-eyes, *Z. chloris* on mainland South-east Sulawesi and its continental islands.

5.1.1. Tobias scoring - *Z. chloris flavissimus* vs mainland South-east Sulawesi Lemon-bellied White-eyes

MORPHOLOGY

For this comparison we considered all *Z. c. flavissimus* individuals (*N* = 362, from Wangi-wangi, Oroho, Kaledupa, Tomia, Lintea Selatan and Binongko Islands) and mainland South-east Sulawesi Lemon-bellied White-eye individuals used in this study (*N* = 168, from mainland South-east Sulawesi, Kabaena, Muna and Buton Islands). Runduma Island individuals were excluded as they may represent an independent subspecies.

Trait displaying the largest difference: wing length

Mean *Z. c. flavissimus* (mm): 54.8 ± 0.09

Mean Mainland South-east Sulawesi Lemon-bellied White-eye (mm): 58.6 ± 0.12

Cohen's d effect size: 2.3

Tobias score for morphology: 2

SONG

Tobias scoring allows for the using of one temporal and one spectral vocal character.

For these comparisons we considered all *Z. c. flavissimus* (*N* = 28, from Wangi-wangi, Kaledupa and Tomia Islands) and mainland South-east Sulawesi Lemon-bellied White-eye recordings (*N* = 24, from mainland South-east Sulawesi, Kabaena, Muna and Buton Islands).

Song: temporal character

Trait displaying the largest difference: number of notes

Mean *Z. c. flavissimus* (n): 14.11 ± 0.27

Mean Mainland South-east Sulawesi Lemon-bellied White-eye (n): 11.32 ± 0.27

Cohen's d effect size: 2.02

Tobias score for song temporal character: 2

Song: spectral character

Trait displaying the largest difference: maximum frequency

Mean *Z. c. flavissimus* (kHz): 7.26 ± 0.1

Mean Mainland South-east Sulawesi Lemon-bellied White-eye (kHz): 5.85 ± 0.14

Cohen's d effect size: 2.35

Tobias score for spectral character: 2

PLUMAGE AND BARE PARTS

Z. c. flavissimus is described as yellower than the other Lemon-bellied White-eye subspecies, with "yellow, not blackish or dusky lores, below which a dusky-black stripe extends to under [the] eyering" (van Balen 2008). We have found this to be the case (Table S5.18). In addition *Z. c. flavissimus* has a paler bill than mainland South-east Sulawesi Lemon-bellied White-eye.

Bill colour

Z. c. flavissimus: pale horn

Mainland South-east Sulawesi Lemon-bellied White-eye: grey/black

Tobias score for bill colour: 2

Head and face

Z. c. flavissimus: head more yellow, with a reduced dark area on the face, only showing a thin dark stripe on the lores

Mainland South-east Sulawesi Lemon-bellied White-eye: head darker, with the face showing a thicker dark stripe on the lores

Tobias score for head and lores: 1

Total Tobias score for *Z. c. flavissimus*: 9

5.1.2. Tobias scoring *Zosterops sp. nov.* 'Wangi-wangi White-eye' vs the Pale-bellied White-eye

While the genetic distinctiveness of the 'Wangi-wangi White-eye' is compelling, a Tobias scoring was carried out between the 'Wangi-wangi White-eye' and the Pale-bellied White-eye *Zosterops consobrinorum* to further establish the status of the 'Wangi-wangi White-eye' as a novel species. As the 'Wangi-wangi White-eye' lives in sympatry with *Z. c. flavissimus* and the two remain distinct, they automatically receive a Tobias score of 7, as their reproductive isolation has been demonstrated.

MORPHOLOGY

As we do not recommend any taxonomic reconsideration of the Pale-bellied White-eye, all Pale-bellied White-eye individuals were pooled for this assessment (*N* = 139 from mainland Sulawesi, Kabaena, Muna and Buton Islands). All 38 'Wangi-wangi White-eyes' were included.

Trait displaying the largest difference: wing length

Mean Pale-bellied White-eye (mm): 14.78 ± 0.06

Mean 'Wangi-wangi White-eye' (mm): 19.36 ± 0.07

Cohen's d effect size: 6.47

Tobias score for morphology: 3

PLUMAGE AND BARE PARTS

The 'Wangi-wangi White-eye' has a bill which is distinctly different in colouration to the Pale-bellied White-eye (Table S5.19). In addition the two species show a minor difference in the colouration of their feet and legs.

Bill colour

'Wangi-wangi White-eye': yellow

Pale-bellied White-eye: black

Tobias score for bill colour: 3

Feet colour

'Wangi-wangi White-eye': pale fleshy colour

Pale-bellied White-eye: dark grey

Tobias score for feet colour: 1

Total Tobias score for the 'Wangi-wangi White-eye': 7

5.1.3. Assessment

Both *Z. c. flavissimus* (Tobias score = 9) and the 'Wangi-wangi White-eye' (Tobias score = 7) fulfil the criteria required to be considered full species by the Tobias scoring system.

Table S5.18: Comparison photos for Tobias scoring between *Zosterops chloris flavissimus* (Wakatobi Islands) and the Lemon-bellied White-eye population on mainland South-east Sulawesi and continental islands.

Zosterops chloris flavissimus	Lemon-bellied White-eye mainland South-east Sulawesi
Wangi-wangi Island 	Mainland Sulawesi 
Kaledupa Island 	Buton Island 

Tomia Island

Muna Island

Binongko Island

Kabaena Island

Table S5.19: Comparison photos for Tobias scoring between the Pale-bellied White-eye and the 'Wangi-wangi White-eye'.

Pale-bellied White-eye	'Wangi-wangi White-eye'
Muna Island 	Wangi-wangi Island (all photos) 
Buton Island 	

Mainland Sulawesi

Kabaena Island

Table S5.20: Existing vouchered specimens of *Zosterops* chloris from South-east Sulawesi. AMNH - American Museum of Natural History.

Catalogue No.	Museum	Collector	Collector's No.	Zone	Island	Current subspecies	Preparation
SKIN 700315	AMNH	Heinrich Kühn	4215	Wakatobi	Binongko	*flavissimus*	Skin
SKIN 700316	AMNH	Heinrich Kühn	4217	Wakatobi	Binongko	*flavissimus*	Skin
SKIN 700317	AMNH	Heinrich Kühn	4219	Wakatobi	Binongko	*flavissimus*	Skin
SKIN 700318	AMNH	Heinrich Kühn	4221	Wakatobi	Binongko	*flavissimus*	Skin
SKIN 295140	AMNH	Heinrich Kühn	4224	Wakatobi	Binongko	*flavissimus*	Skin
SKIN 700320	AMNH	Heinrich Kühn	4579	Wakatobi	Kaledupa	*flavissimus*	Skin
SKIN 700319	AMNH	Heinrich Kühn	4580	Wakatobi	Kaledupa	*flavissimus*	Skin
SKIN 700321	AMNH	Heinrich Kühn	4425	Wakatobi	Tomia	*flavissimus*	Skin
SKIN 700322	AMNH	Heinrich Kühn	4422	Wakatobi	Tomia	*flavissimus*	Skin
SKIN 700323	AMNH	Heinrich Kühn	4423	Wakatobi	Tomia	*flavissimus*	Skin
SKIN 700324	AMNH	Heinrich Kühn	4448	Wakatobi	Wangi-Wangi	*flavissimus*	Skin
SKIN 700331	AMNH	Heinrich Kühn	4152	Mainland	Buton	*intermedius*	Skin
SKIN 700332	AMNH	Heinrich Kühn	4169	Mainland	Buton	*intermedius*	Skin

6. Island-like processes in urban populations of a 'great speciator' - Supplementary information

Table S6.1: A summary of the morphological data used in this analysis for Lemon-bellied White-eyes and Pale-bellied White-eyes , showing mean figures ± standard error. The island identity is included in brackets after the site name.

Population	Wing length (mm)	Bill length (mm)	Mass (g)
Lemon-bellied White-eye Kendari (Sulawesi) (*N* = 86)	58.81 ± 0.13	14.33 ± 0.06	11.39 ± 0.07
Lemon-bellied White-eye Rumbarumba (Sulawesi) (*N* = 15)	58.83 ± 0.2	14.71 ± 0.12	10.89 ± 0.13
Lemon-bellied White-eye Labundobundo (Buton) (*N* = 10)	59.15 ± 0.27	14.73 ± 0.22	11.44 ± 0.16
Lemon-bellied White-eye Kamama Mekar (Muna) (*N* = 19)	56.74 ± 0.3	14.71 ± 0.14	10.27 ± 0.13
Lemon-bellied White-eye Sikeli (Kabaena) (*N* = 49)	59.19 ± 0.22	15.04 ± 0.11	11.06 ± 0.11
Lemon-bellied White-eye Runduma (Runduma) (*N* = 45)	59.16 ± 0.17	15.55 ± 0.1	9.91 ± 0.08
Pale-bellied White-eye Rumbarumba (Sulawesi) (*N* = 45)	53.28 ± 0.17	13.36 ± 0.09	8.89 ± 0.07
Pale-bellied White-eye Kusambi (Buton) (*N* = 18)	54.5 ± 0.29	13.7 ± 0.14	9.7 ± 0.11
Pale-bellied White-eye Kaikalu (Buton) (*N* = 16)	54.09 ± 0.33	13.25 ± 0.18	9.58 ± 0.14
Pale-bellied White-eye Labundobundo (Buton) (*N* = 5)	54.7 ± 0.44	13.52 ± 0.24	9.36 ± 0.17
Pale-bellied White-eye Kamama Mekar (Muna) (*N* = 30)	52.7 ± 0.22	13.18 ± 0.1	8.44 ± 0.1
Pale-bellied White-eye Enano (Kabaena) (*N* = 13)	55.46 ± 0.53	14.08 ± 0.2	10.47 ± 0.2
Pale-bellied White-eye Tangkeno (Kabaena) (*N* = 15)	57.87 ± 0.59	14.26 ± 0.13	11.21 ± 0.18

Table S6.2: A summary of the transect data used in this analysis for Lemon-bellied White-eyes and Pale-bellied White-eyes, showing mean count ± standard error. The island identity is included in brackets after the site name. A dash indicates no records for that site.

Population	Lemon-bellied White-eye mean count	Pale-bellied White-eye mean count
Kendari (Sulawesi) (*N* = 6)	42.67 ± 10.91	-
Rumbarumba (Sulawesi) (*N* = 9)	2.78 ± 0.78	4.78 ± 1.0
Kusambi (Buton) (*N* = 4)	-	11.25 ± 3.35
Labundobundo (Buton) (*N* = 6)	1.33 ± 0.42	3.0 ± 0.52
Kamama Mekar (Muna) (*N* = 5)	6.2 ± 1.66	8.0 ± 0.77
Enano (Kabaena) (*N* = 8)	-	6.38 ± 1.82
Tangkeno (Kabaena) (*N* = 11)	-	8.18 ± 0.76
Sikeli (Kabaena) (*N* = 4)	29.5 ± 11.32	-
Runduma (Runduma) (*N* = 6)	30.17 ± 2.31	-

Table S6.3: Results of all comparisons in the Tukey HSD posthoc to the Negative Binomial GLM of Lemon-bellied White-eye density. The island identity is included in brackets after the site name. Site abbreviations; KEN - Kendari (Sulawesi), SIK - (Kabaena), RUND - Runduma Island, KUS - Kusambi (Buton), TAN - Tangkeno (Kabaena), ENA - Enano (Kabaena), KAM - Kamama Mekar (Muna), RUM - Rumbarumba (Sulawesi), LBB - Labundobundo (Buton).

Comparison	Estimate	Std. Error	z value	Pr(>|z|)	Significance
LBB - KEN	-3.46574	0.442	-7.841	<0.001	***
KAM - KEN	-1.92887	0.33055	-5.835	<0.001	***
RUM - KEN	-2.73177	0.3151	-8.67	<0.001	***
RUND - KEN	-0.34668	0.27547	-1.258	0.8016	NS
SIK - KEN	-0.36903	0.30895	-1.194	0.834	NS
KAM - LBB	1.53687	0.47996	3.202	0.0163	*
RUM - LBB	0.73397	0.46945	1.563	0.614	NS
RUND - LBB	3.11906	0.44382	7.028	<0.001	***
SIK - LBB	3.09671	0.46534	6.655	<0.001	***
RUM - KAM	-0.80290	0.36645	-2.191	0.2344	NS
RUND - KAM	1.58219	0.33299	4.751	<0.001	***
SIK - KAM	1.55984	0.36117	4.319	<0.001	***
RUND - RUM	2.38509	0.31765	7.508	<0.001	***
SIK - RUM	2.36274	0.34708	6.807	<0.001	***
SIK - RUND	-0.02235	0.31156	-0.072	1.0	NS

7. Female birds crowded out by males on small islands: niche contraction in dense populations of Olive-backed Sunbirds is asymmetric - Supplementary information

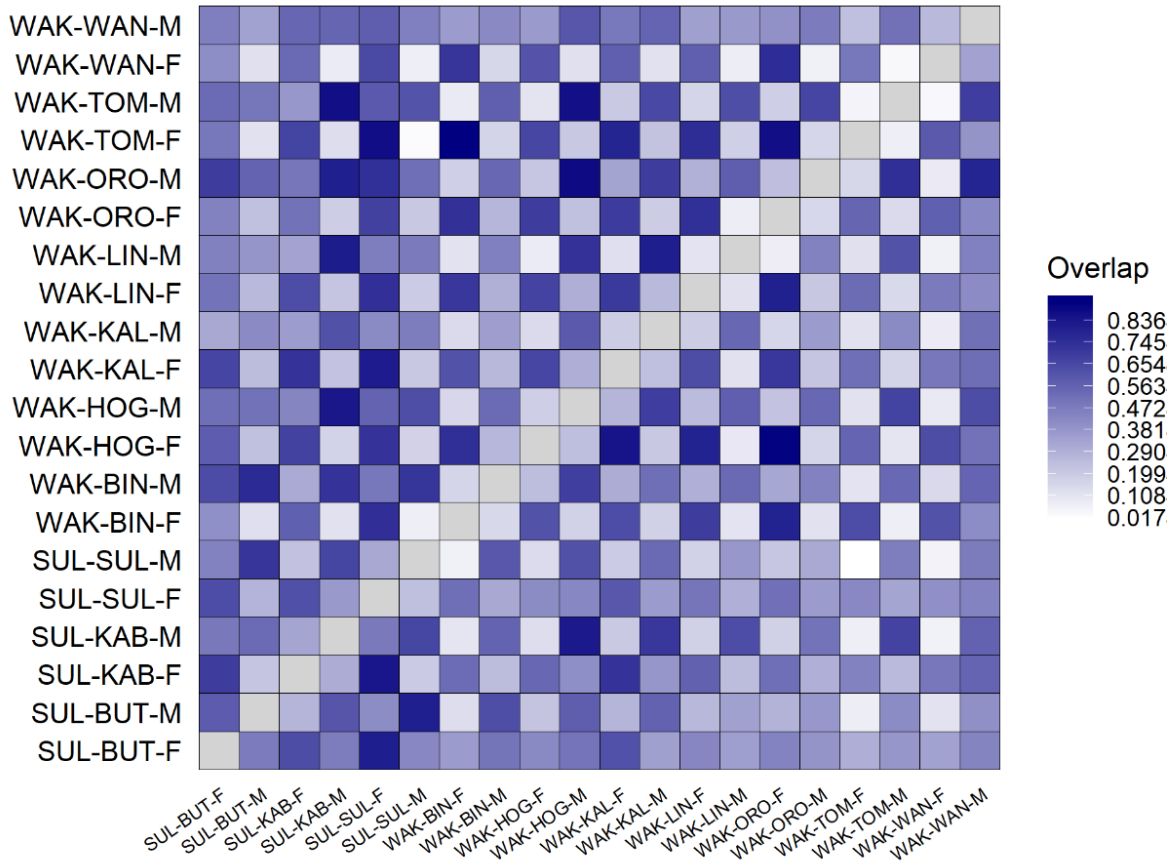

Figure S7.1: Heatmap showing the proportion overlap in morphological niche between all Olive-backed Sunbird populations. Population abbreviations are given in the form, ZONE-ISLAND-SEX. Zone abbreviations; SUL - Sulawesi mainland and continental islands, WAK - Wakatobi Islands. Island abbreviations; SUL- Sulawesi mainland, BUT - Buton, KAB - Kabaena, WAN - Wangi-wangi, ORO - Oroho, KAL - Kaledupa, HOG - Hoga, TOM - Tomia, LIN - Lintea Selatan and BIN - Binongko. Sex abbreviations; F - Female, M - Male.

Table S7.1: Total morphological niche volume for female and male Olive-backed Sunbirds on each island, and the proportion of morphological niche volume overlap between male and female sunbirds in each population. The Sulawesi mainland and its continental islands are highlighted in bold, Wakatobi Islands are highlighted in italics.

Population	Female Olive-backed Sunbird morphological niche volume	Male Olive-backed Sunbird morphological niche volume	Mean overlap
Sulawesi	0.828	0.675	**0.281**
Buton	0.720	0.630	**0.534**
Kabaena	0.705	0.681	**0.320**
Wangi-wangi	0.585	0.707	**0.304**
Oroho	0.693	0.501	**0.199**
Kaledupa	0.658	0.745	**0.218**
Hoga	0.550	0.690	**0.217**
Tomia	0.497	0.547	**0.066**
Lintea Selatan	0.636	0.559	**0.119**
Binongko	0.643	0.608	**0.157**

Table S7.2: A summary of the transect data used in this analysis for Olive-backed Sunbirds, showing mean figures ± standard error of the counts of Olive-backed Sunbirds. The Sulawesi mainland and its continental islands are highlighted in bold, Wakatobi Islands are highlighted in italics.

Population	Olive-backed Sunbird mean count
Sulawesi (*n* = 21)	2.29 ± 0.59
Buton (*n* = 16)	1.56 ± 0.33
Kabaena (*n* = 30)	4.17 ± 0.7
Wangi-wangi (n = 10)	18.4 ± 2.41
Kaledupa (n = 11)	17.55 ± 1.19
Hoga (n = 6)	21.67 ± 1.3
Tomia (n = 10)	23.9 ± 2.45
Binongko (n = 10)	19.2 ± 2.57

Table S7.3: Results of all comparisons in the Tukey HSD posthoc test to the Poisson GLM of Olive-backed Sunbird density. Island abbreviations; SUL - mainland Sulawesi, BUT - Buton, KAB - Kabaena, WAN - Wangi-wangi, KAL - Kaledupa, HOG - Hoga, TOM - Tomia and BIN - Binongko.

Comparison	Estimate	Std. Error	z value	Pr(>|z|)	Significance
BUT - BIN	-2.50862	0.21262	-11.798	<0.001	***
HOG - BIN	0.09752	0.11438	0.853	0.98872	NS
KAB - BIN	-1.52779	0.11493	-13.294	<0.001	***
KAL - BIN	-0.09012	0.10193	-0.884	0.98601	NS
SUL - BIN	-2.12823	0.16137	-13.188	<0.001	***
TOM - BIN	0.21897	0.09691	2.259	0.29622	NS
WAN - BIN	-0.04256	0.10317	-0.413	0.99989	NS
HOG - BUT	2.60614	0.2188	11.911	<0.001	***
KAB - BUT	0.98083	0.21909	4.477	<0.001	***
KAL - BUT	2.41851	0.21256	11.378	<0.001	***
SUL - BUT	0.38039	0.24664	1.542	0.76813	NS
TOM - BUT	2.72759	0.2102	12.976	<0.001	***
WAN - BUT	2.46606	0.21315	11.569	<0.001	***
KAB - HOG	-1.62531	0.12599	-12.9	<0.001	***
KAL - HOG	-0.18763	0.11426	-1.642	0.70568	NS
SUL - HOG	-2.22575	0.16943	-13.137	<0.001	***
TOM - HOG	0.12145	0.10981	1.106	0.95096	NS
WAN - HOG	-0.14008	0.11536	-1.214	0.92079	NS
KAL - KAB	1.43768	0.11481	12.522	<0.001	***
SUL - KAB	-0.60044	0.1698	-3.536	0.00866	**
TOM - KAB	1.74676	0.11038	15.825	<0.001	***
WAN - KAB	1.48523	0.11591	12.814	<0.001	***
SUL - KAL	-2.03812	0.16129	-12.636	<0.001	***
TOM - KAL	0.30908	0.09678	3.194	0.0274	*
WAN - KAL	0.04756	0.10303	0.462	0.99978	NS
TOM - SUL	2.3472	0.15817	14.84	<0.001	***
WAN - SUL	2.08567	0.16207	12.869	<0.001	***
WAN - TOM	-0.26153	0.09808	-2.667	0.1211	NS

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