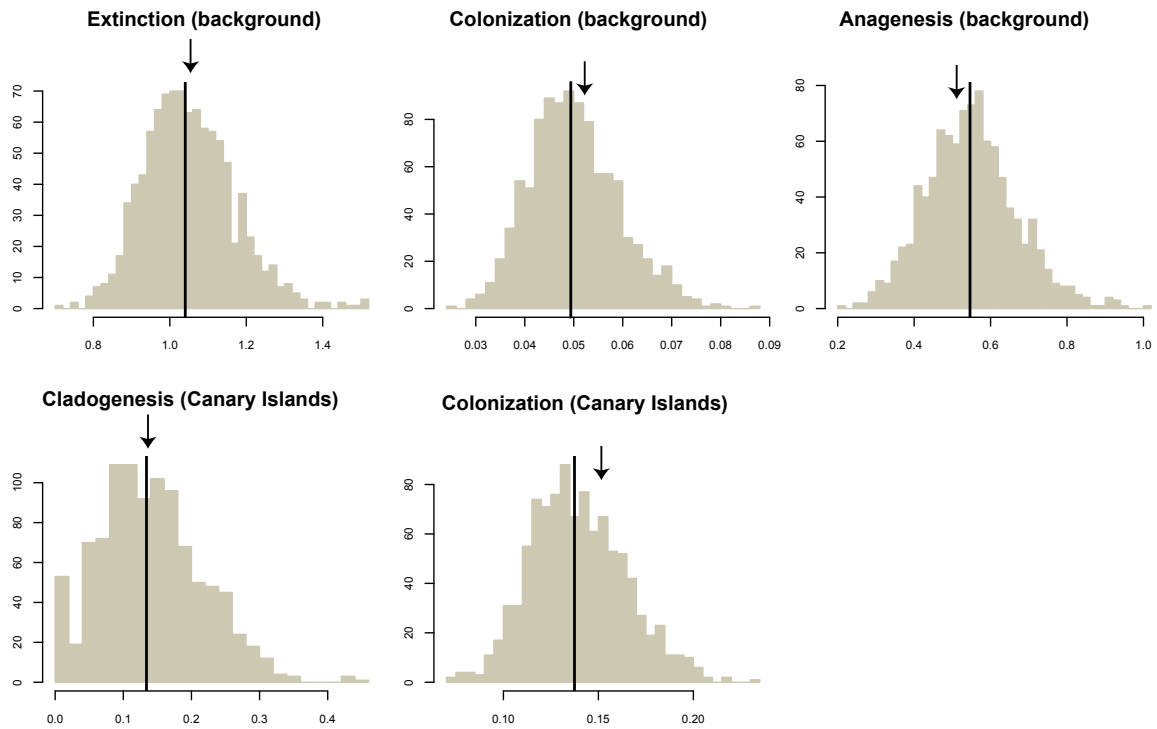


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**Fig. S1 - Distribution of times of colonization of the four archipelagos. Related to Fig. 1.** Times of colonization obtained from the BEAST analyses.



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**Fig. S2 – Bootstrap precision estimates of the parameters of the M17 model. Related to Figure 2.** Parametric bootstrap analysis fitting the M17 model to 1,000 datasets simulated with maximum likelihood parameters of M17 model. Plots show frequency histograms of estimated parameters. Black lines show the median estimated values across all simulations and the arrows the simulated values. Background – indicates that the parameter is shared across all archipelagos (extinction and anagenesis) or most archipelagos (colonization).

**Table S1 – Sample information for all new samples that were sequenced for this study. Related to Fig. 1.**

Genus	Species	Subspecies	Region	Locality	Collector	Code	Genbank accession #
<i>Acrocephalus</i>	<i>brevipennis</i>		Cape Verde	Santiago	J.C. Illera	L313_CV1	KY378711
<i>Alaemon</i>	<i>alaudipes</i>		Cape Verde	Maio	Alex Tavares	L578	KY378712
<i>Alaemon</i>	<i>alaudipes</i>		Morocco	Lago Ait-Serji	J.L. Tella	L586_V077710	KY378713
<i>Ammomanes</i>	<i>cinctura</i>		Cape Verde	Santiago	J.C. Illera	L316_CV20	KY378714
<i>Anthus</i>	<i>berthelotii</i>	<i>berthelotii</i>	Canary Islands	Fuerteventura	J.C. Illera	L324_FV6	KY378716
<i>Anthus</i>	<i>campestris</i>		Iberian Peninsula	Sierra Nevada	J.C. Illera	L360_PN442	KY378719
<i>Anthus</i>	<i>berthelotii</i>	<i>maderensis</i>	Madeira	Porto Santo	J.C. Illera	L367_AB814	KY378717
<i>Anthus</i>	<i>berthelotii</i>	<i>maderensis</i>	Madeira	Deserta Grande	J.C. Illera	L368_AB549	KY378718
<i>Anthus</i>	<i>berthelotii</i>		Selvagens	Selvagem Grande	J.C. Illera	L377_AB867	KY378715
<i>Bucanetes</i>	<i>githagineus</i>	<i>amantum</i>	Canary Islands	Fuerteventura	J.C. Illera	L321_FV3	KY378721
<i>Bucanetes</i>	<i>githagineus</i>		Morocco	Lago Ait-Serji	J.L. Tella	L587_L955050	KY378720
<i>Calandrella</i>	<i>rufescens</i>	<i>polatzeki</i>	Canary Islands	Fuerteventura	J.C. Illera	L326_FV8	KY378724
<i>Calandrella</i>	<i>rufescens</i>		Iberian Peninsula	Planerón	J.L. Tella	L341_IP1	KY378722
<i>Calandrella</i>	<i>rufescens</i>		Iberian Peninsula	Planerón	J.L. Tella	L590_N643392	KY378723
<i>Calandrella</i>	<i>rufescens</i>	<i>rufescens</i>	Canary Islands	Captive / Tenerife	Mariano Hernández	L591	KY378725
<i>Carduelis</i>	<i>cannabina</i>	<i>harteri</i>	Canary Islands	Fuerteventura	J.C. Illera	L325_FV7	KY378728
<i>Carduelis</i>	<i>carduelis</i>		Iberian Peninsula	Córdoba	J.C. Illera	L345_IP5	KY378731
<i>Carduelis</i>	<i>cannabina</i>		Iberian Peninsula	Sierra Nevada	J.C. Illera	L350_PN1316	KY378726
<i>Carduelis</i>	<i>chloris</i>		Iberian Peninsula	Sierra Nevada	J.C. Illera	L359_PN357	KY378733
<i>Carduelis</i>	<i>chloris</i>		Morocco	Ain-El-Hallouf	J.C. Illera	L374_MO6	KY378734
<i>Carduelis</i>	<i>cannabina</i>		Morocco	Ain-El-Hallouf	J.C. Illera	L375_MO7	KY378727
<i>Carduelis</i>	<i>cannabina</i>	<i>meadewaldoi</i>	Canary Islands	Tenerife	J.C. Illera	L379_Va2	KY378730
<i>Carduelis</i>	<i>carduelis</i>		Canary Islands	La Gomera	J.C. Illera	L380_Va3	KY378732
<i>Carduelis</i>	<i>chloris</i>		Canary Islands	Tenerife	J.C. Illera	L382_Va5	KY378735
<i>Carduelis</i>	<i>cannabina</i>	<i>harteri</i>	Canary Islands	Lanzarote	J.C. Illera	L390_Va13	KY378729
<i>Columba</i>	<i>livia</i>		Canary Islands	Fuerteventura	J.C. Illera	L323_FV5	KY378736
<i>Columba</i>	<i>livia</i>		Azores	Graciosa	J.C. Illera	L391_Coli1	KY378737
<i>Columba</i>	<i>livia</i>		Azores	Graciosa	J.C. Illera	L392_Coli2	KY378738
<i>Columba</i>	<i>livia</i>		Cape Verde	Cape Verde	Alex Tavares	L579	KY378739
<i>Corvus</i>	<i>ruficollis</i>		Cape Verde	Maio	Alex Tavares	L592_Corvo220	KY378740
<i>Cyanistes</i>	<i>teneriffae</i>	<i>palmensis</i>	Canary Islands	La Palma	J.C. Illera	L332_PN496	KY378743
<i>Cyanistes</i>	<i>teneriffae</i>	<i>degener</i>	Canary Islands	Fuerteventura	J.C. Illera	L338_FV1	KY378742

<i>Cyanistes</i>	<i>caeruleus</i>		Iberian Peninsula	Sierra Nevada	J.C. Illera	L357_PN254	KY378741
<i>Dendrocopos</i>	<i>major</i>		Iberian Peninsula	Sierra Nevada	J.C. Illera	L349_PN1295	KY378744
<i>Emberiza</i>	<i>calandra</i>		Iberian Peninsula	Lumbrales	G. López	L344_IP4	KY378745
<i>Emberiza</i>	<i>calandra</i>		Canary Islands	Tenerife	D.P. Padilla	L581_V021108	KY378746
<i>Eremopterix</i>	<i>nigriceps</i>		Cape Verde	Santiago	J.C. Illera	L315_CV19	KY378747
<i>Eremopterix</i>	<i>nigriceps</i>		Cape Verde	Cape Verde	Alex Tavares	L576	KY378748
<i>Eremopterix</i>	<i>nigriceps</i>		Mauritania	El Metreoka	J.L. Tella	L588_45	KY378749
<i>Erithacus</i>	<i>rubecula</i>	<i>rubecula</i>	Canary Islands	La Palma	J.C. Illera	L330_PN492	KY378751
<i>Erithacus</i>	<i>rubecula</i>		Madeira	Santa Pico Alto	J.C. Illera	L558_MADE05	KY378750
<i>Fringilla</i>	<i>coelebs</i>	<i>palmae</i>	Canary Islands	La Palma	J.C. Illera	L331_PN493	KY378753
<i>Fringilla</i>	<i>coelebs</i>		Iberian Peninsula	Sierra Nevada	J.C. Illera	L352_PN157	KY378752
<i>Fringilla</i>	<i>coelebs</i>		Morocco	Ifrane	J.C. Illera	L369_MO1	KY378754
<i>Lanius</i>	<i>meridionalis</i>	<i>koenigi</i>	Canary Islands	Fuerteventura	J.C. Illera	L322_FV4	KY378755
<i>Motacilla</i>	<i>cinerea</i>		Iberian Peninsula	Sierra Nevada	G. López	L358_PN325	KY378756
<i>Motacilla</i>	<i>cinerea</i>	<i>patriciae</i>	Azores	Terceira	J.C. Illera	L378_Va1	KY378761
<i>Motacilla</i>	<i>cinerea</i>	<i>canariensis</i>	Canary Islands	Tenerife	J.C. Illera	L381_Va4	KY378760
<i>Motacilla</i>	<i>cinerea</i>		Madeira	Lombo do Baixo, Faial	J.C. Illera	L560_MADE74	KY378757
<i>Motacilla</i>	<i>cinerea</i>		Morocco	Morocco	J.C. Illera	L582_0001213	KY378758
<i>Motacilla</i>	<i>cinerea</i>		Iberian Peninsula	Sierra Nevada	J.C. Illera	L583_PN325	KY378759
<i>Passer</i>	<i>iagoensis</i>		Cape Verde	Santiago	J.C. Illera	L314_CV10	KY378765
<i>Passer</i>	<i>hispaniolensis</i>		Cape Verde	Santiago	J.C. Illera	L317_CV6	KY378762
<i>Passer</i>	<i>hispaniolensis</i>		Canary Islands	Fuerteventura	J.C. Illera	L320_FV2	KY378763
<i>Passer</i>	<i>montanus</i>		Iberian Peninsula	Madrid	J.C. Illera	L343_IP3	KY378767
<i>Passer</i>	<i>hispaniolensis</i>		Iberian Peninsula	Córdoba	J.C. Illera	L346_IP6	KY378764
<i>Passer</i>	<i>iagoensis</i>		Cape Verde	Maio	A. Tavares	L577	KY378766
<i>Passer</i>	<i>montanus</i>		Canary Islands	Gran Canaria	A. Moreno	L593_L555950	KY378768
<i>Petronia</i>	<i>petronia</i>	<i>petronia</i>	Canary Islands	Tenerife	J.C. Illera	L383_Va6	KY378769
<i>Phylloscopus</i>	<i>canariensis</i>		Canary Islands	La Palma	J.C. Illera	L333_PN611	KY378770
<i>Phylloscopus</i>	<i>collybita</i>		Iberian Peninsula	Lumbrales	J.C. Illera	L339_GUI1	KY378771
<i>Phylloscopus</i>	<i>ibericus</i>		Iberian Peninsula	Trassierra	J.C. Illera	L340_GUI7	KY378772
<i>Pyrrhonorax</i>	<i>pyrrhonorax</i>		Canary Islands	La Palma	J.C. Illera	L384_Va7	KY378773
<i>Pyrrhula</i>	<i>pyrrhula</i>		Iberian Peninsula	Picos de Europa	J.C. Illera	L361_PN63	KY378774
<i>Regulus</i>	<i>regulus</i>	<i>ellenthalerae</i>	Canary Islands	La Palma	J.C. Illera	L335_PN654	KY378777

<i>Regulus</i>	<i>ignicapillus</i>		Iberian Peninsula	Sierra Nevada	J.C. Illera	L348_PN1226	KY378775
<i>Regulus</i>	<i>regulus</i>		Iberian Peninsula	Picos de Europa	J.C. Illera	L353_PN1918	KY378776
<i>Saxicola</i>	<i>dacotiae</i>	<i>dacotiae</i>	Canary Islands	Fuerteventura	J.C. Illera	L336_Sax 911	KY378778
<i>Saxicola</i>	<i>torquata</i>	<i>rubicola</i>	Iberian Peninsula	Sierra Nevada	J.C. Illera	L354_PN200	KY378779
<i>Serinus</i>	<i>canarius</i>		Canary Islands	La Palma	J.C. Illera	L334_PN645	KY378780
<i>Serinus</i>	<i>serinus</i>		Iberian Peninsula	Sierra Nevada	J.C. Illera	L355_PN207	KY378782
<i>Serinus</i>	<i>canarius</i>		Madeira	Porto Santo	J.C. Illera	L365_SC 444	KY378781
<i>Serinus</i>	<i>serinus</i>		Morocco	Ain-El-Hallouf	J.C. Illera	L373_MO5	KY378783
<i>Serinus</i>	<i>serinus</i>		Canary Islands	Gran Canaria	J.C. Illera	L385_Va8	KY378784
<i>Streptopelia</i>	<i>turtur</i>		Canary Islands	Tenerife	J.C. Illera	L386_Va9	KY378787
<i>Streptopelia</i>	<i>decaocto</i>		Iberian Peninsula	Málaga	G. López	L575	KY378785
<i>Streptopelia</i>	<i>decaocto</i>		Canary Islands	Tenerife	J.C. Illera	L589_Va10	KY378786
<i>Streptopelia</i>	<i>turtur</i>		Iberian Peninsula	Andújar (Jaén)	G. López	L594	KY378788
<i>Sylvia</i>	<i>atricapilla</i>		Cape Verde	Santiago	J.C. Illera	L318_CV7	KY378789
<i>Sylvia</i>	<i>conspicillata</i>		Cape Verde	Maio	J.C. Illera	L319_SC272	KY378792
<i>Sylvia</i>	<i>atricapilla</i>	<i>heineken</i>	Canary Islands	La Palma	J.C. Illera	L328_PN488	KY378791
<i>Sylvia</i>	<i>melanocephalaleucogastra</i>		Canary Islands	La Palma	J.C. Illera	L329_PN491	KY378799
<i>Sylvia</i>	<i>conspicillata</i>	<i>orbitalis</i>	Canary Islands	Tenerife	J.C. Illera	L337_SC61	KY378796
<i>Sylvia</i>	<i>melanocephala</i>		Iberian Peninsula	Sierra Nevada	J.C. Illera	L351_PN155	KY378797
<i>Sylvia</i>	<i>conspicillata</i>	<i>conspicillata</i>	Iberian Peninsula	Granada	J.C. Illera	L363_SC133	KY378794
<i>Sylvia</i>	<i>conspicillata</i>		Madeira	Porto Santo	J.C. Illera	L364_SC 403	KY378793
<i>Sylvia</i>	<i>atricapilla</i>		Madeira	Porto Santo	J.C. Illera	L366_SC 445	KY378790
<i>Sylvia</i>	<i>melanocephala</i>		Morocco	Ain-El-Hallouf	J.C. Illera	L372_MO4	KY378798
<i>Sylvia</i>	<i>conspicillata</i>	<i>conspicillata</i>	Morocco	Ifrane	J.C. Illera	L376_SC8	KY378795
<i>Turdus</i>	<i>merula</i>		Canary Islands	La Palma	J.C. Illera	L327_PN472	KY378800
<i>Turdus</i>	<i>merula</i>		Iberian Peninsula	Sierra Nevada	J.C. Illera	L347_PN1086	KY378801
<i>Turdus</i>	<i>merula</i>		Morocco	Ain-El-Hallouf	J.C. Illera	L370_MO2	KY378802
<i>Turdus</i>	<i>merula</i>		Madeira	Santa Pico Alto	J.C. Illera	L559_MADE08	KY378803
<i>Turdus</i>	<i>merula</i>		Azores	Pico	J.C. Illera	L603_T1	KY378804
<i>Turdus</i>	<i>merula</i>		Azores	Terceira	J.C. Illera	L604_T2	KY378805
<i>Turdus</i>	<i>merula</i>		Azores	Terceira	J.C. Illera	L605_T3	KY378806
<i>Upupa</i>	<i>epops</i>		Iberian Peninsula	Sierra Nevada	J.C. Illera	L342_IP2	KY378807
<i>Upupa</i>	<i>epops</i>		Canary Islands	Tenerife	J.C. Illera	L388_Va11	KY378808
<i>Upupa</i>	<i>epops</i>		Canary Islands	Tenerife	J.C. Illera	L389_Va12	KY378809

**Table S2 – Colonization events of Macaronesia for all the taxa in our focal group. Related to Fig. 1.**  
Including extinct species. Times of colonization taken from the maximum clade credibility trees from BEAST.

Archipelago	Taxon	Status	Colonization time (Myr)	95% CI (Myr)	Topology	Node used for age	Fig. 1
Azores	<i>Fringilla moreletii</i>	Endemic	1.34	0.91 - 1.8	A	St	1
Azores	<i>Pyrrhula murina</i>	Endemic	1.08	0.50 - 1.85	A	St	2
Azores	<i>Erithacus rubecula</i>	Non endemic	0.75	0.32 - 1.13	B	Mrca	3
Azores	<i>Turdus merula azorensis</i>	Non endemic	0.493	0.27 - 0.74	B	Mrca	4
Azores	<i>Regulus regulus</i>	Non endemic	0.49	0.26 - 0.75	A	St	5
Azores	<i>Carduelis carduelis</i>	Non endemic	0.44	0.14 - 0.82	D	Cr	6
Azores	<i>Sylvia atricapilla atlantis</i>	Non endemic	0.43	0.18 - 0.73	B	Mrca	7
Azores	<i>Motacilla cinerea</i>	Non endemic	0.38	0.10 - 0.71	C	Mrca	8
Azores	<i>Columba livia atlantis</i>	Non endemic	0.29	0.13 - 0.47	A	St	9
Azores	<i>Serinus canarius</i>	Macaronesian endemic	0.25	0.10 - 0.43	A	St	10
Azores	<i>Columba palumbus azorica</i>	Non endemic	0.21	0.07 - 0.38	B	Mrca	11
Azores	<i>Sturnus vulgaris granti</i>	Non endemic	0.12	0.03 - 0.26	A	St	12
Azores	<i>Pyrrhula</i> spp. †	Extinct	NA	NA	E	Na	-
Azores	Undescribed taxon aff. family Troglodytidae †	Extinct	NA	NA	E	Na	-
Azores	<i>Turdus</i> spp. 1 †	Extinct	NA	NA	E	Na	-
Canary Isl.	<i>Columba junoniae</i>	Endemic	8.54	6.49 - 10.98	A	St	13
Canary Isl.	<i>Fringilla teydea / polatzeki</i>	Endemic	3.01	2.15 - 3.87	A	St	14
Canary Isl.	<i>Erithacus rubecula marionae</i>	Non endemic	2.95	1.46 - 4.59	A	St	15
Canary Isl.	<i>Cyanistes teneriffae palmensis</i>	Endemic	2.4	1.35 - 3.44	A	St	16
Canary Isl.	<i>Phylloscopus canariensis</i>	Endemic	2.28	1.59 - 3.02	A	St	17
Canary Isl.	<i>Anthus berthelotii</i>	Macaronesian endemic	2.2	1.42 - 3.07	A	St	18
Canary Isl.	<i>Erithacus rubecula superbus</i>	Non endemic	2.17	0.99 - 3.25	A	St	19
Canary Isl.	<i>Columba bollii</i>	Endemic	2.14	1.42 - 2.91	A	St	20
Canary Isl.	<i>Saxicola dacotiae</i>	Endemic	1.95	1.29 - 2.62	A	St	21
Canary Isl.	<i>Cyanistes teneriffae Central group</i>	Endemic	1.66	1.03 - 2.32	A	St	22
Canary Isl.	<i>Regulus regulus teneriffae</i>	Non endemic	1.61	1.08 - 2.14	A	St	23
Canary Isl.	<i>Regulus regulus ellenthalerae</i>	Non endemic	1.33	0.87 - 1.82	A	St	24
Canary Isl.	<i>Passer hispaniolensis</i>	Non endemic	1.27	0.73 - 1.84	B	Mrca	25
Canary Isl.	<i>Dendrocopos major</i>	Non endemic	0.98	0.21 - 2.25	A	St	26
Canary Isl.	<i>Fringilla canariensis</i>	Endemic	0.93	0.57 - 1.32	A	St	27
Canary Isl.	<i>Calandrella rufescens rufescens</i> †	Extirpated	0.79	0.25 - 1.52	C	Tip	28
Canary Isl.	<i>Erithacus rubecula rubecula</i>	Non endemic	0.75	0.32 - 1.13	B	Mrca	29
Canary Isl.	<i>Bucanetes githagineus</i>	Non endemic	0.72	0.34 - 1.16	B	Mrca	30

Canary Isl.	<i>Pyrrhocorax graculus</i> †	Extirpated	0.66	0.09 - 1.27	D	Cr	31
Canary Isl.	<i>Corvus corax</i>	Non endemic	0.66	0.34 - 1.03	B	Mrca	32
Canary Isl.	<i>Columba livia</i>	Non endemic	0.63	0.30 - 1.07	C	Mrca	33
Canary Isl.	<i>Sylvia melanocephala</i>	Non endemic	0.62	0.32 - 0.97	B	Mrca	34
Canary Isl.	<i>Sylvia conspicillata</i>	Non endemic	0.57	0.27 - 0.95	B	Mrca	35
Canary Isl.	<i>Sylvia atricapilla</i>	Non endemic	0.43	0.18 - 0.73	B	Mrca	36
Canary Isl.	<i>Lanius meridionalis</i>	Non endemic	0.39	0.20 - 0.62	B	Mrca	37
Canary Isl.	<i>Sturnus vulgaris</i>	Non endemic	0.38	0.20 - 0.60	D	Cr	38
Canary Isl.	<i>Motacilla cinerea</i>	Non endemic	0.38	0.10 - 0.71	C	Mrca	39
Canary Isl.	<i>Serinus canarius</i>	Macaronesian endemic	0.32	0.12 - 0.56	B	Mrca	40
Canary Isl.	<i>Pyrrhocorax pyrrhocorax</i>	Non endemic	0.31	0.02 - 0.90	C	Tip	41
Canary Isl.	<i>Carduelis cannabina</i>	Non endemic	0.3	0.08 - 0.56	B	Mrca	42
Canary Isl.	<i>Petronia petronia</i>	Non endemic	0.25	0.03 - 0.51	C	Tip	43
Canary Isl.	<i>Cyanistes teneriffae</i> East	Non endemic	0.25	0.09 - 0.42	B	Mrca	44
Canary Isl.	<i>Carduelis carduelis</i>	Non endemic	0.2	0.03 - 0.41	A	St	45
Canary Isl.	<i>Carduelis chloris</i>	Non endemic	0.16	0.03 - 0.33	A	St	46
Canary Isl.	<i>Passer montanus</i>	Non endemic	0.14	0.004 - 0.3	C	Tip	47
Canary Isl.	<i>Calandrella rufescens polatzeki</i>	Non endemic	0.13	0.01 - 0.28	C	Tip	48
Canary Isl.	<i>Streptopelia decaocto</i>	Non endemic	0.11	0.01 - 0.23	C	Tip	49
Canary Isl.	<i>Upupa epops</i>	Non endemic	0.09	0.003 - 0.22	A	St	50
Canary Isl.	<i>Turdus merula</i>	Non endemic	0.07	0 - 0.16	C	Tip	51
Canary Isl.	<i>Serinus serinus</i>	Non endemic	0.04	0 - 0.13	C	Tip	52
Canary Isl.	<i>Emberiza calandra</i>	Non endemic	0.04	0 - 0.12	C	Tip	53
Canary Isl.	<i>Carduelis aurelioi</i> †	Extinct	NA	NA	E	Na	-
Canary Isl.	<i>Carduelis triasi</i> †	Extinct	NA	NA	E	Na	-
Canary Isl.	<i>Emberiza alcoveri</i> †	Extinct	NA	NA	E	Na	-
Canary Isl.	<i>Erithacus</i> spp. †	Extinct	NA	NA	E	Na	-
Canary Isl.	<i>Turdus</i> spp. 2 †	Extinct	NA	NA	E	Na	-
Cape Verde	<i>Alauda razae</i>	Endemic	5.26	3.90 - 6.73	C	Tip	54
Cape Verde	<i>Passer iagoensis</i>	Endemic	4.38	3.10 - 5.86	A	St	55
Cape Verde	<i>Corvus ruficollis</i>	Non endemic	1.84	0.93 - 2.68	C	Tip	56
Cape Verde	<i>Columba livia</i>	Non endemic	0.63	0.30 - 1.07	C	Mrca	57
Cape Verde	<i>Sylvia conspicillata</i>	Non endemic	0.57	0.27 - 0.95	B	Mrca	58
Cape Verde	<i>Sylvia atricapilla</i>	Non endemic	0.43	0.18 - 0.73	C	Mrca	59
Cape Verde	<i>Eremopterix nigriceps</i>	Non endemic	0.27	0.07 - 0.50	A	St	60
Cape Verde	<i>Ammomanes cinctura</i>	Non endemic	0.23	0.07 - 0.42	C	Tip	61
Cape Verde	<i>Acrocephalus brevipennis</i>	Endemic	0.17	0.03 - 0.34	A	St	62
Cape Verde	<i>Alaemon alaudipes</i>	Non endemic	0.06	0 - 0.17	C	Tip	63
Madeira	<i>Regulus madeirensis</i>	Endemic	5.43	3.39 - 7.45	A	St	64
Madeira	<i>Columba trocaz</i>	Endemic	1.66	1.04 - 2.31	A	St	65
Madeira	<i>Fringilla madeirensis</i>	Endemic	1.1	0.73 - 1.51	A	St	66

Madeira	<i>Erithacus rubecula</i>	Non endemic	0.75	0.32 - 1.13	B	Mrca	67
Madeira	<i>Sylvia conspicillata</i>	Non endemic	0.57	0.27 - 0.95	C	Mrca	68
Madeira	<i>Carduelis carduelis</i>	Non endemic	0.44	0.14 - 0.71	D	Cr	69
Madeira	<i>Sylvia atricapilla</i>	Non endemic	0.43	0.18 - 0.73	B	Mrca	70
Madeira	<i>Motacilla cinerea</i>	Non endemic	0.38	0.10 - 0.71	C	Mrca	71
Madeira	<i>Carduelis chloris</i>	Non endemic	0.36	0.14 - 0.58	D	Cr	72
Madeira	<i>Anthus berthelotti</i>	Macaronesian endemic	0.34	0.13 - 0.58	B	Mrca	73
Madeira	<i>Serinus canarius</i>	Macaronesian endemic	0.32	0.12 - 0.56	B	Mrca	74
Madeira	<i>Carduelis cannabina</i>	Non endemic	0.3	0.08 - 0.56	D	Cr	75
Madeira	<i>Petronia petronia</i>	Non endemic	0.25	0.03 - 0.51	D	Cr	76
Madeira	<i>Streptopelia decaocto</i>	Non endemic	0.23	0.07 - 0.42	D	Cr	77
Madeira	<i>Columba palumbus</i> †	Extirpated	0.21	0.07 - 0.38	D	Cr	78
Madeira	<i>Upupa epops</i>	Non endemic	0.09	0.003 - 0.22	D	Cr	79
Madeira	<i>Turdus merula</i>	Non endemic	0.06	0 - 0.14	C	Tip	80
Madeira	Fringillidae spp. †	Extinct	NA	NA	E	Na	-
Madeira	<i>Turdus</i> spp. 3 †	Extinct	NA	NA	E	Na	-
Selvagens	<i>Anthus berthelotti</i>	Macaronesian endemic	0.34	0.13 - 0.58	C	Cr	-

- 27 A - Two or more individuals from archipelago sampled, archipelago individuals form monophyletic clade  
28 B - Two or more individuals from archipelago sampled, archipelago individuals do not form exclusive clade  
29 C - One individual sampled from archipelago  
30 D - Species sampled, but from population outside the archipelago  
31 E - Species not sampled in phylogeny  
32 Cr - Crown age of species used  
33 Mrca - Age of most recent common ancestor of clade containing the individuals from archipelago used  
34 St - Stem age used  
35 Tip - Age of tip of individual sample used  
36 Na - Not available  
37 † - Extinct/extirpated  
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39 **Table S3 – Cladogenetic events in Macaronesian birds. Related to Fig. 1.** Branching times taken from the  
 40 maximum clade credibility trees from BEAST.  
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Archipelago	Clade name	Species	Branching times (Myr)	95% CI, lower bound (Myr)	95% CI, upper bound(Myr)
Canary Islands	<i>Cyanistes teneriffae</i> (Central)	<i>C. teneriffae</i> , <i>C. hedwigae</i> , <i>C. ombriosus</i>	1.7, 1.1, 0.6	1.0, 0.7, 0.3	2.3, 1.7, 0.9
Canary Islands	<i>Fringilla</i>	<i>F. teydea</i> , <i>F. polatzeki</i>	3.0, 1.2	2.2, 0.7	3.9, 1.8

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44 **Table S4 – DAISIE models. Related to Fig. 2.** Description of the DAISIE models fitted to the Macaronesia  
 45 phylogenetic datasets, specifying parameters included in each model.  $\lambda^c$  - per lineage rate of cladogenesis;  $\mu$  - per  
 46 lineage rate of extinction;  $K'$  – carrying capacity;  $\gamma$  - per lineage rate of colonization;  $\lambda^a$  - per lineage rate of  
 47 anagenesis. Parameters are common to all archipelagos ('background', filled cells) except when a particular  
 48 archipelago is assigned a different parameter. Unfilled cells indicate that the parameter is not present in the given  
 49 model. Diversity-dependent models are those for which  $K'$  is estimated. \*When a parameter differs between all  
 50 archipelagos (e.g.  $\gamma$  in M4), the background rate corresponds to the Azores.

Model	Background*					Canary Islands					Cape Verde					Madeira				
	$\lambda^c$	$\mu$	$K'$	$\gamma$	$\lambda^a$	$\lambda^c$	$\mu$	$K'$	$\gamma$	$\lambda^a$	$\lambda^c$	$\mu$	$K'$	$\gamma$	$\lambda^a$	$\lambda^c$	$\mu$	$K'$	$\gamma$	$\lambda^a$
M1	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M2	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M3	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M4	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M5	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M6	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M7	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M8	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M9	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M10	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M11	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M12	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M13	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M14	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M15	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M16	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M17	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M18	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M19	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M20	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M21	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M22	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M23	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M24	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M25	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M26	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M27	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M28	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M29	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M30	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M31	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M32	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M33	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M34	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M35	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M36	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M37	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M38	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M39	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M40	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M41	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M42	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M43	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M44	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M45	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M46	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M47	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M48	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M49	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
M50	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█



M25	5	-467.94	962.07	9.93E-07	0.12	1.11	-	0.08	0.73	-	-	-	-	0.30	-	-	-	-	-	-	-	-	-	-
M26	6	-459.62	950.68	9.30E-05	0.37	1.64	-	0.07	-	-	1.16	-	0.15	0.04	-	-	-	-	-	-	-	-	-	-
M27	5	-459.66	945.51	3.90E-03	0.38	1.65	-	0.07	-	-	1.18	-	0.15	-	-	-	-	-	-	-	-	-	-	-
M28	5	-462.79	951.77	1.71E-04	0.35	1.89	-	0.10	-	-	0.99	-	-	0.07	-	-	-	-	-	-	-	-	-	-
M29	5	-461.48	949.16	6.31E-04	0.37	1.35	-	0.06	-	-	-	-	0.18	0.03	-	-	-	-	-	-	-	-	-	-
M30	4	-462.88	946.71	6.79E-03	0.38	1.92	-	0.10	-	-	1.01	-	-	-	-	-	-	-	-	-	-	-	-	-
M31	4	-461.50	943.95	2.69E-02	0.39	1.36	-	0.06	-	-	-	-	0.18	-	-	-	-	-	-	-	-	-	-	-
M32	4	-474.57	970.10	5.64E-08	0.37	1.37	-	0.09	-	-	-	-	-	0.03	-	-	-	-	-	-	-	-	-	-
M33	3	-474.59	964.89	2.41E-06	0.39	1.38	-	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M34	7	-457.28	951.24	2.23E-05	0.58	1.83	-	0.08	-	0.15	0.96	-	0.14	0.26	-	-	-	-	-	-	-	-	-	-
M35	6	-458.50	948.44	2.85E-04	0.58	1.83	-	0.08	-	0.30	1.10	-	0.15	-	-	-	-	-	-	-	-	-	-	-
M36	6	-459.25	949.94	1.35E-04	0.63	2.08	-	0.10	-	0.13	0.81	-	-	0.28	-	-	-	-	-	-	-	-	-	-
M37	6	-461.37	954.18	1.62E-05	0.39	1.33	-	0.06	-	0.31	-	-	0.18	0.09	-	-	-	-	-	-	-	-	-	-
M38	5	-461.05	948.29	9.72E-04	0.64	2.12	-	0.10	-	0.28	0.94	-	-	-	-	-	-	-	-	-	-	-	-	-
M39	5	-461.47	949.13	6.39E-04	0.40	1.36	-	0.06	-	0.37	-	-	0.18	-	-	-	-	-	-	-	-	-	-	-
M40	5	-473.96	974.11	2.41E-09	0.32	1.38	-	0.09	-	0.47	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-
M41	4	-473.96	968.87	1.05E-07	0.32	1.38	-	0.09	-	0.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M42	7	-451.12	938.91	1.06E-02	-	1.11	2.64	0.06	0.85	0.38	-	-	0.16	0.17	-	-	-	-	-	-	-	-	-	-
M43	6	-453.62	938.68	3.75E-02	-	1.06	2.71	0.05	0.51	0.22	-	-	0.16	-	-	-	-	-	-	-	-	-	-	-
M44	6	-454.46	940.36	1.62E-02	0.19	1.10	2.69	0.05	0.45	-	-	-	0.17	-	-	-	-	-	-	-	-	-	-	-
M45	8	-450.47	942.85	4.67E-04	-	1.11	1.00	0.06	0.84	0.37	-	2.78	0.16	0.17	-	-	-	-	-	-	-	-	-	-
M46	7	-452.96	942.59	1.68E-03	-	1.06	1.00	0.05	0.51	0.22	-	2.89	0.16	-	-	-	-	-	-	-	-	-	-	-
M47	5	-468.42	963.03	6.12E-07	0.17	1.11	3.11	0.08	0.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M48	7	-452.96	942.59	1.68E-03	0.22	1.06	1.00	0.05	0.51	-	-	2.89	0.16	-	-	-	-	-	-	-	-	-	-	-
M49	16	-446.78	977.38	1.49E-15	0	2.15	-	0.11	1.29	0.15	0.96	-	0.14	0.26	0	0.76	-	0.03	0.48	0	1.53	-	0.10	1.10
M50	20	-444.64	994.05	3.56E-21	0.00	2.19	1.00	0.11	1.30	0.28	0.97	2.83	0.15	0.23	0.01	0.77	1.00	0.03	0.48	0.01	1.54	1.00	0.10	1.08

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**Table S6 – Taxa for which three alternative classification schemes were used. Related to Fig. 1.** The ‘conservative’ scheme is based on the Clements Checklist [1]; the ‘current’ scheme is based on Illera *et al.* [2] who reviewed latest taxonomic findings; the ‘phylogenetic’ scheme is similar to the ‘current’ scheme, but additionally treats as endemic species cases where a taxon from an archipelago forms a strongly supported monophyletic group older than 1 Myr in our BEAST trees.

Archipelago	‘Conservative’	‘Current’	‘Phylogenetic’
Canary Isl.	<i>Cyanistes teneriffae</i> (non-endemic)	<i>Cyanistes palmensis</i> (endemic)	<i>Cyanistes palmensis</i> (endemic)
Canary Isl.	<i>Cyanistes teneriffae</i> (non-endemic)	<i>Cyanistes teneriffae</i> Central group, (3 endemic species: <i>C. teneriffae</i> , <i>C. hedwigae</i> , <i>C. ombriosus</i> )	<i>Cyanistes teneriffae</i> Central group, (3 endemic species: <i>C. teneriffae</i> , <i>C. hedwigae</i> , <i>C. ombriosus</i> )
Canary Isl.	<i>Erithacus rubecula</i> (non-endemic)	<i>Erithacus rubecula</i> (non-endemic)	<i>Erithacus marionae</i> (endemic)
Canary Isl.	<i>Erithacus rubecula</i> (non-endemic)	<i>Erithacus rubecula</i> (non-endemic)	<i>Erithacus superbus</i> (endemic)
Madeira	<i>Fringilla coelebs</i> (non-endemic)	<i>Fringilla madeirensis</i> (endemic)	<i>Fringilla madeirensis</i> (endemic)
Azores	<i>Fringilla coelebs</i> (non-endemic)	<i>Fringilla moreletii</i> (endemic)	<i>Fringilla moreletii</i> (endemic)
Canary Isl.	<i>Fringilla coelebs</i> (non-endemic)	<i>Fringilla canariensis</i> (endemic)	<i>Fringilla canariensis</i> (endemic)
Canary Isl.	<i>Fringilla teydea</i> (single endemic species)	<i>Fringilla teydea</i> , <i>Fringilla polatzeki</i> (2 endemic species)	<i>Fringilla teydea</i> , <i>Fringilla polatzeki</i> (2 endemic species)
Madeira	<i>Regulus ignicapillus</i> (non-endemic)	<i>Regulus madeirensis</i> (endemic)	<i>Regulus madeirensis</i> (endemic)
Canary Isl.	<i>Regulus regulus</i> (non-endemic)	<i>Regulus regulus</i> (non-endemic)	<i>Regulus teneriffae</i> (endemic)
Canary Isl.	<i>Regulus regulus</i> (non-endemic)	<i>Regulus regulus</i> (non-endemic)	<i>Regulus ellenthalerae</i> (endemic)

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## Supplemental References

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