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Electronic Appendix A. Ecological traits among pairs of species that consisted of island species and their mainland counterparts.

Species	Island	Family	Male body mass (g)	Habitat type ¹	Food type ²	Intra-specific flocking	Density	Nest predation	Mean flock size	Maximum flock size	Mixed-species flocking	References ³
<i>Anas poecilorhyncha pelewensis</i>	Society	Anatidae	.	Water	Plants	Present	Common	Present	7.5	20	Absent	1,2,3,4,5,6
<i>Anas platyrhynchos</i>	.	Anatidae	1246	Water	Mixed	Present	Common	.	110	1000	Present	1,7,8,9
<i>Anas laysanensis</i>	Laysan	Anatidae	455.9	Open	Insects	Absent	Common	Rare	1	2	Absent	1,2,10,11,12
<i>Anas superciliosa rogersi</i>	.	Anatidae	1059	Open	Sseeds-insects	Present	Common	.	.	1000	Absent	1,12,13
<i>Collocalia bartschi</i>	Guam	Apodidae	7.4	Mixed	Insects	Present	Common	Absent	.	100	Absent	2,14,15,16,17,18,19,20,21,22
<i>Collocalia terraereginae</i>	.	Apodidae	11.3	Mixed	Insects	Present	Common	.	.	.	.	14,15
<i>Aerodramus elaphra</i>	Praslin	Apodidae	10.7	Mixed	Insects	Present	Common	Rare	.	.	Absent	14,15,23,24,25,26,27
<i>Aerodramus fuciphagus</i>	.	Apodidae	10.7	Mixed	Insects	Present	Common	.	30	100	Present	3,14,15,25,28,29,30
<i>Zoonavena thomensis</i>	Sao Tomé	Apodidae	8	Mixed	Insects	Present	Common	.	6	30	Present	15,31,32,33,34,35
<i>Zoonavena sylvatica</i>	.	Apodidae	13	Mixed	Insects	Present	Common	.	.	50	.	15,36

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<i>Charadrius sanctaehelenae</i>	St-Helena	Charadriidae	.	Open	Insects	Absent	Low	Present	2	2	Absent	37,38,39,40,41,42,43
<i>Charadrius pecuarius</i>	.	Charadriidae	34	Open	Insects	Present	Common	.	3.5	270	Present	39,40,44,45,46
<i>Raphus cucullatus</i>	Mauritius	Raphidae	21200	Forest	Fruits-seeds	Absent	.	.	1	1	Absent	47,48,49,50
<i>Goura victoria</i>	.	Columbidae	2380	Forest	Fruits-seeds	Present	Common	.	2	10	Absent	47,48,49,50,51,52,53,54
<i>Ducula aurorae</i>	Society	Columbidae	.	Forest	Fruits	Mixed	Low	.	1	4	Absent	2,4,47,52,55,56
<i>Ducula aenea</i>	.	Columbidae	600	Forest	Fruits	Present	Common	.	1	60	Absent	3,30,36,47,52,57
<i>Ptilinopus roseicapilla</i>	Saipan	Columbidae	92	Forest	Fruits	Mixed	Common	Present	1	12	Absent	2,16,17,18,19,20,21,22,47,52,58
<i>Ptilinopus magnificus</i>	.	Columbidae	480	Forest	Fruits	Mixed	Common	.	1	6	Absent	47,51,52,53,59
<i>Dicunculus strigirostris</i>	Samoa	Columbidae	400	Forest	Fruits	Present	Low	Present	.	20	Absent	2,47,48,50,52,60,61,62,63
<i>Treron waalia</i>	.	Columbidae	260	Forest	Fruits	Present	Common	.	.	50	Present	3,44,46,47,48,50,52
<i>Gallicolumba xanthonura</i>	Saipan	Columbidae	128.7	Forest-plantation	Fruits	Absent	Common	Present	1	2	Absent	2,16,17,18,19,20,21,47,48,58
<i>Geopelia cuneata</i>	.	Columbidae	33.5	Open	Seeds	Present	Common	.	25	60	Present	47,48,59
<i>Alectroenas pulcherrima</i>	Praslin	Columbidae	165	Forest	Fruits	Present	Low	Present	2	.	Absent	3,23,24,26,27,47,52,64
<i>Alectroenas madagascariensis</i>	.	Columbidae	.	Forest	Fruits	Present	Common	.	2	13	Absent	24,47,65,66

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<i>Columba malherbii</i>	Principe	Columbidae	.	Forest	Fruits	Present	Common	.	.	24	.	31,32,34,35,44,47,52,67,68
<i>Columba iriditorques</i>	.	Columbidae	130	Forest	Fruits	Present	Common	.	2	4	Present	3,34,44,47,52,69
<i>Columba thomensis</i>	Sao Tomé	Columbidae	525	Forest	Fruits	Present	Common	.	.	.	.	31,32,34,35,44,47,52,68,69,70
<i>Columba arquatrix</i>	.	Columbidae	349	Forest	Fruits-insects	Present	Common	.	.	10	Present	44,47,52,69
<i>Corvus kubaryi</i>	Guam	Corvidae	.	Mixed	Mixed	Present	Low	Present	2	26	Absent	16,21,71,72,73,74,75,76,77
<i>Corvus macrorhynchos</i>	.	Corvidae	550	Mixed	Mixed	Present	Common	.	2	.	.	71,77,78
<i>Mohoua albicilla</i>	Little Barrier	Corvidae	18	Forest	Insects-seeds	Present	Common	Present	15	30	Present	79,80,81,82,83,84,85,86
<i>Falcunculus frontatus</i>	.	Corvidae	30.5	Forest	Insects-seeds	Present	Common	.	4	14	Present	80,87
<i>Rhipidura fuliginosa</i>	Little Barrier	Corvidae	.	Forest	Insects	Absent	Common	Present	2	30	Present	79,86
<i>Rhipidura fuliginosa</i>	.	Corvidae	7.95	Forest	Insects	Absent	Common	.	2	.	Present	81,87,88,89,90
<i>Terpsiphone atrochalybeia</i>	Sao Tomé	Corvidae	12.2	Mixed	Insects	Absent	Common	.	2	.	Present	31,32,34,35,68,91,92
<i>Terpsiphone viridis</i>	.	Corvidae	15	Mixed	Insects	Absent	Common	.	2	.	Present	34,91
<i>Telospiza cantans</i>	Laysan	Fringillidae	34.4	Open	Seeds-insects	Absent	Common	Absent	1	1	Absent	93,94,95

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<i>Loxia curvirostra</i>	.	Fringillidae	33.85	Forest	Seeds	Present	Common	.	3	100	Present	94,95,96,97,98,99,100,101
<i>Mniotilta varia</i>	Virgin	Fringillidae	12	Forest	Insects	Present	Common	Present	4	.	Present	102,103,104,105,106,107,108
<i>Mniotilta varia</i>	.	Fringillidae	12	Forest	Insects	Present	Common	.	14	40	Present	109,110,111,112,113,114,115,116,117
<i>Parula americana</i>	Virgin	Fringillidae	8.5	Forest	Insects	Present	Common	Present	4	.	Present	102,104,105,107,108,118
<i>Parula americana</i>	.	Fringillidae	8.5	Forest	Insects	Present	Common	.	.	.	Present	111,119
<i>Parula pitiayumi graysoni</i>	Socorro	Fringillidae	6.3	Forest	Insects	Present	Common	Present	.	50	Absent	120,121,122,123
<i>Parula pitiayumi</i>	.	Fringillidae	7.2	Forest	Insects	Present	Common	.	2	.	Present	102,111,123
<i>Serinus rufobrunneus thomensis</i>	Sao Tomé	Fringillidae	22.3	Mixed	Seeds	Present	Common	.	2	15	.	34,100,124,125
<i>Serinus mozambicus caniceps</i>	.	Fringillidae	.	Mixed	Seeds	Present	Common	.	.	.	.	34,100,124
<i>Hirundo tahitica tahitica</i>	Society	Hirundinidae	.	Open	Insects	Mixed	.	Absent	.	.	Absent	2,4,126
<i>Hirundo tahitica javanicae</i>	.	Hirundinidae	13.1	Open	Insects	Mixed	Common	.	.	20	.	28,126
<i>Anabathmis newtonii</i>	Sao Tomé	Nectarinidae	7	Mixed	Nectar-insects	Present	Common	.	2	30	Present	31,32,34,35,127,128
<i>Anabathmis reichenbachii</i>	.	Nectarinidae	11	Mixed	Insects-nectar	Absent	Common	.	2	.	Mixed	34,127,128
<i>Gerygone albofrontata</i>	Chatham	Pardalotidae	11.1	Forest	Insects	Mixed	Common	Present	.	15	Present	80,81,129,130,131,132,133,134

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<i>Gerygone mouki</i>	.	Pardalotidae	5.2	Forest	Insects	Mixed	Common	.	2.5	12	Present	80,133,135
<i>Foudia flavicans</i>	Rodrigues	Passeridae	15.9	Forest	Insects-nectar	Present	Low	Absent	2	25	Present	24,136,137,138,139,140,141
<i>Foudia madagascarensis</i>	.	Passeridae	18.2	Mixed	Seeds-insects	Present	Common	.	.	100	Present	3,24,65,136
<i>Erythrura cyanovirens cyanovirens</i>	Samoa	Passeridae	.	Forest	Seeds-insects	Absent	Low	.	1	2	Absent	2,60,61,63,100,142,143,144
<i>Erythrura prasina</i>	.	Passeridae	.	Forest	Seeds	Present	Common	.	.	.	.	30,100,142,145
<i>Ploceus princeps</i>	Principe	Passeridae	.	Open	Insects-seeds	Present	Common	.	.	30	Present	31,34,35,67,68,136,146
<i>Ploceus aurantius</i>	.	Passeridae	.	Mixed	Insects-fruits	Present	Common	.	.	.	.	34,136,146
<i>Lonchura c. cucullata</i>	Sao Tomé	Passeridae	9.2	Open	Seeds	Present	Common	.	.	80	Present	3,31,32,34,35,67,68,146,147
<i>Lonchura c. cucullata</i>	.	Passeridae	9.2	Open	Seeds	Present	Common	.	14	.	Present	34,100,146,147
<i>Vini stepheni</i>	Henderson	Psittacidae	55	Forest	Nectar-fruits	Mixed	Common	Present	2	5	Absent	148,149,150,151,152
<i>Glossopsitta concinna</i>	.	Psittacidae	79	Forest-plantation	Nectar-fruits	Present	Common	.	.	100	Present	148,153
<i>Trichoglossus rubiginosus</i>	Pohnpei	Psittacidae	.	Forest	Nectar-pollen	Present	Common	.	.	12	Absent	21,148,154
<i>Trichoglossus haematodus moluccanus</i>	.	Psittacidae	136	Forest	Nectar-pollen	Present	Common	.	2.9	1000	Present	148,153,155,156

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<i>Coracopsis nigra barklyi</i>	Praslin	Psittacidae	136	Forest-plantation	Fruits	Mixed	Low	Present	2	.	Absent	23,24,26,27,64,148,157,158
<i>Coracopsis nigra nigra</i>	.	Psittacidae	141	Forest	Fruits	Present	Common	.	.	50	Absent	3,24,65,66,148
<i>Amazona leucocephala caymanensis</i>	Grand Cayman	Psittacidae	.	Mixed	Seeds-fruits	Present	Common	Present	.	.	Absent	105,148,159,160,161,162
<i>Amazona albifrons</i>	.	Psittacidae	.	Mixed	Seeds-fruits	Present	Common	.	.	100	.	111,148,163
<i>Cyanoramphus unicolor</i>	Antipodes	Psittacidae	167.1	Open	Plants	Absent	Common	Absent	1	2	Absent	148,153,164,165,166
<i>Platyercus elegans</i>	.	Psittacidae	140	Forest	Plants	Mixed	Common	.	5.7	100	Present	148,153,167,168
<i>Psittacus erithacus princeps</i>	Principe	Psittacidae	.	Forest	Fruits-seeds	Present	Common	.	.	8	.	31,67,68,148,169,170
<i>Psittacus erithacus erithacus</i>	.	Psittacidae	250	Forest	Fruits-seeds	Present	Common	.	.	30	.	3,33,46,69,148
<i>Aplonis opaca guami</i>	Guam	Sturnidae	83.9	Forest-plantation	Fruits-insects	Present	Common	Present	2	13	Absent	2,3,16,18,19,20,21,58,171
<i>Aplonis panayensis</i>	.	Sturnidae	56.2	Forest	Fruits-insects	Present	Common	.	.	.	.	3,30,172,173
<i>Lamprotornis ornatus</i>	Principe	Sturnidae	.	Forest	Seeds-insects	Present	Common	.	2	30	Present	31,35,67,68,124,170,171
<i>Lamprotornis splendidus</i>	.	Sturnidae	133	Forest	Seeds	Present	Common	.	12	300	Present	124,128,171

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<i>Onychognathus f. fulgidus</i>	Sao Tomé	Sturnidae	.	Forest	Fruits-insects	Present	Common	.	.	8	.	32,34,68,128,171
<i>Onychognathus fulgidus hartlaubi</i>	.	Sturnidae	122	Forest	Fruits-insects	Present	Common	.	7.5	22	Present	32,34,68,124,171
<i>Horizorhinus dohrni</i>	Principe	Sylviidae	19	Forest	Insects-berries	Present	Common	.	.	10	Absent	31,34,35,67,68,128
<i>Kupeornis gilberti</i>	.	Sylviidae	.	Forest	Insects	Present	Common	.	6.9	13	Present	34,128
<i>Prinia molleri</i>	Sao Tomé	Sylviidae	8.5	Mixed	Insects-fruits	Present	Common	Present	5	17	Present	31,35,68,91,174
<i>Prinia subflava</i>	.	Sylviidae	9.3	Mixed	Insects	Present	Common	.	.	.	Present	34,91
<i>Zosterops c. conspicillata</i>	Guam	Zosteropidae	.	Forest	Insects	Present	Low	Present	4	20	Absent	2,16,20,21,174,175
<i>Zosterops senegalensis</i>	.	Zosteropidae	8.1	Forest	Insects-fruits	Present	Common	.	7	50	Present	46,128,174,176
<i>Zosterops c. rotensis</i>	Rota	Zosteropidae	.	Forest	Fruits-insects	Present	Low	Present	.	23	Absent	2,16,17,20,21,22,174,177,178
<i>Zosterops montanus</i>	.	Zosteropidae	10.5	Forest	Insects	Present	Common	.	.	.	Present	3,172,174
<i>Zosterops lateralis chlorocephalus</i>	Heron	Zosteropidae	14.1	Mixed	Fruits-insects	Present	Common	Rate	2	30	Absent	179,180,181,182,183
<i>Zosterops lateralis familiaris</i>	.	Zosteropidae	12.9	Mixed	Nectar-invertebrates	Present	Common	.	.	.	.	3,80,88,179
<i>Zosterops hypolais</i>	Yap	Zosteropidae	.	Forest	.	Present	.	.	.	.	Absent	2,21,174
<i>Zosterops erythropleurus</i>	.	Zosteropidae	10.9	Forest	.	Present	Common	.	.	.	Present	3,30,184,185

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<i>Zosterops ficedulinus ficedulinus</i>	Principe	Zosteropidae	.	Forest	Insects	Present	Common	.	.	20	Present	31,35,68,124,128
<i>Zosterops pallidus</i>	.	Zosteropidae	10.3	Forest	Insects-fruits	Present	Common	.	.	100	.	34,128

¹ Mixed habitat type corresponds to cases where species inhabit a mixture of habitats typically including open and forested areas

² Mixed food type corresponds to cases where species fed on a variety of food types including animal and vegetable matter

³ References: (1) (Johnsgard 1978); (2) (Pratt *et al.* 1987); (3) (Dunning 1993); (4) (Holyoak 1974); (5) (Petitot & Petitot 1975); (6) (Thibault 1975); (7) (Cramp & Simmons 1977); (8) (Palmer 1976); (9) (Drilling *et al.* 2002); (10) (Moulton & Marshall 1996); (11) (Olson & Ziegler 1995); (12) (Johnson & Sorenson 1999); (13) (Marchant & Higgins 1990); (14) (Lee *et al.* 1996); (15) (Chantler & Driessens 2000); (16) (Jenkins 1983); (17) (Stott 1947); (18) (Marshall 1949); (19) (Pratt *et al.* 1979); (20) (Reichel *et al.* 1994); (21) (Engbring & Pratt 1985); (22) (Steadman 1999); (23) (Skerrett & Bullock 2001); (24) (Sinclair & Langrand 1998); (25) (Johnson & Clayton 1999); (26) (Gaymer *et al.* 1969); (27) (Penny 1974); (28) (Waugh & Hails 1983); (29) (Lourie & Tompkins 2000); (30) (Robson 2000); (31) (Snow 1950); (32) (Bannerman 1915); (33) (Fry *et al.* 1988); (34) (Borrow & Demey 2001); (35) (Atkinson *et al.* 1991); (36) (Grimmett *et al.* 1999); (37) (McCulloch 1991); (38) (Ashmole 1963); (39) (Johnsgard 1981); (40) (Hayman *et al.* 1986); (41) (Lockwood *et al.* 1996); (42) (McCulloch & Norris 2001); (43) (Rowlands *et al.* 1998); (44) (Urban *et al.* 1986); (45) (Owino 2002); (46) (Zimmerman *et al.* 1996); (47) (Gibbs *et al.* 2001); (48) (Shapiro *et al.* 2002); (49) (Livezey 1993); (50) (Janoo 2000); (51) (Beehler *et al.* 1986); (52) (Goodwin 1983); (53) (Rand & Gilliard 1967); (54) (King & Nijboer 1994); (55) (Thibault & Guyot 1987); (56) (Steadman 1997); (57) (Wells 1999); (58) (Craig 1996); (59) (Higgins & Davies 1996); (60) (Watling 1982); (61) (Muse & Muse 1982); (62) (Armstrong 1932); (63) (DuPont 1972); (64) (Feare *et al.* 1974); (65) (Langrand 1990); (66) (Morris & Hawkins 1998); (67) (Bannerman 1914); (68) (Christy & Clarke 1998); (69) (Bannerman 1931); (70) (Bannerman 1931); (71) (Madge & Brun 1994); (72) (Wiles 1998); (73) (Tomback 1986); (74) (Michael 1987); (75) (Fancy *et al.* 1999); (76) (Tarr & Fleischer 1999); (77) (Goodwin 1986); (78) (Delacour & Jabouille 1931); (79) (McLean *et al.* 1987); (80) (Higgins & Peter 2002); (81) (Heather & Robertson 1997); (82) (Fox 1978); (83) (Gill & McLean 1992); (84) (Smuts-Kennedy & Lovegrove 1996); (85) (Girardet *et al.* 2001); (86) (Gravatt 1971); (87) (Boles 1988); (88) (Pizzey 1997); (89) (McLean & Jenkins 1980); (90) (McLean 1984); (91) (Urban *et al.* 1997); (92) (de Naurois 1984); (93) (Morin & Conant 2002); (94) (Johnson *et al.* 1989); (95) (Chu 2002); (96) (Adkinsson 1996); (97) (Benkman 1987); (98) (Newton 1972); (99) (Cramp & Perrins 1994); (100) (Clement 1992); (101) (Clouet 2000); (102) (Curson *et al.* 1994); (103) (Kricher 1995); (104) (Ewert & Askins 1991); (105) (Raffaele *et al.* 1998); (106) (Keast 1980); (107) (Robertson 1962); (108) (Askins *et al.* 1992); (109) (Buskirk *et al.* 1972); (110) (Rappole & Warner 1980); (111) (Howell & Webb 1995); (112) (Powell *et al.* 1992); (113) (Powell 1979); (114) (Gram 1998); (115) (Hutto 1994); (116) (King & Rappole 2000); (117) (Jones *et al.* 2000); (118) (Moldenhauer & Regelski 1996); (119) (Post 1978); (120) (Brattstrom & Howell 1956); (121) (Jehl & Parkes 1982); (122) (Parkes 1990); (123) (Regelski & Moldenhauer 1997); (124) (Bannerman 1948); (125) (de Naurois 1975); (126) (Turner 1989); (127) (Cheke & Mann 2001); (128) (Fry *et al.*

2000); (129) (Olson 1984); (130) (Dennison *et al.* 1978); (131) (West 1988); (132) (Fleming 1939); (133) (Ford 1986); (134) (O'Donnell & Dilks 1993); (135) (Serventy 1982); (136) (Crook 1964); (137) (Gill 1967); (138) (Cheke 1987); (139) (Impey *et al.* 2002); (140) (Cheke 1987); (141) (Cowles 1987); (142) (Goodwin 1982); (143) (Bellingham & Davis 1988); (144) (Dhondt 1976); (145) (Smythies 1999); (146) (Bannerman 1949); (147) (Restall 1997); (148) (Juniper & Parr 1998); (149) (Graves 1992); (150) (Trevelyan 1995); (151) (Williams 1960); (152) (Wragg 1995); (153) (Higgins & Davies 1999); (154) (Buden 2000); (155) (Utschick & Brandl 1989); (156) (Franklin 1997); (157) (Merritt *et al.* 1986); (158) (Forshaw 1989); (159) (Bradley 1985); (160) (Bradley 1994); (161) (Bradley 2000); (162) (Nichols 1980); (163) (Levinson 1980); (164) (Taylor 1985); (165) (Greene 1999); (166) (Warham & Bell 1979); (167) (Holyoak 1973); (168) (Boon *et al.* 2001); (169) (Juste 1996); (170) (Moreau 1966); (171) (Feare & Craig 1998); (172) (Coates & Bishop 1997); (173) (Bannerman 1939); (174) (Slikas *et al.* 2000); (175) (Craig 2002); (176) (Kalinganire *et al.* 2001); (177) (Craig & Taisacan 1994); (178) (Craig 1999); (179) (Kikkawa 1970); (180) (Degnan 1993); (181) (Catterall *et al.* 1992); (182) (Kikkawa 1980); (183) (Catterall *et al.* 1989); (184) (Etchécopar & Hue 1983); (185) (MacKinnon & Phillipps 2000);

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