**[Supplemental Material](https://www.journals.uchicago.edu/doi/suppl/10.1086/700566) from H. Fan et al., “Genetic Diversity-Area Relationships across Bird Species”**

**Table S1:** A list of the 387 study species and their heterozygosity, allelic richness, breeding range size, body mass, mid-point latitude of breeding range, and migratory status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Heterozygosity** | **Allelic richness** | **Breeding range size (×104 km2)** | **Body mass (g)** | **Latitude** | **Migratory status** | **References** |
| **Struthioniformes** |  |  |  |  |  |  |  |
| *Apteryx australis* | 0.596 | 4.00 | 2.0088 | 2321 | 45.62 | Resident | Shepherd and Lambert 2006; Willoughby et al. 2015 |
| **Tinamiformes** |  |  |  |  |  |  |  |
| *Tinamus major* | 0.763 | 8.56 | 782.5703 | 1026 | 1.54 | Resident | Hughes 2010; Willoughby et al. 2015 |
| **Sphenisciformes** |  |  |  |  |  |  |  |
| *Eudyptes chrysolophus* | 0.776 | 10.73 | 14.5674 | 4485 | 54.10 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Eudyptula minor* | 0.540 | 6.38 | 60.9832 | 1108 | 39.27 | Resident | Billing et al. 2007; Willoughby et al. 2015 |
| *Megadyptes antipodes* | 0.447 | 3.25 | 16.6531 | 5326 | 47.30 | Resident | Boessenkool et al. 2008; Willoughby et al. 2015 |
| *Pygoscelis adeliae* | 0.524 | 10.50 | 134.0897 | 4848 | 63.01 | Migratory | Evans and Sheldon 2008; Roeder et al. 2001 |
| *Spheniscus humboldti* | 0.759 | 7.86 | 9.0311 | 4366 | 23.00 | Migratory | Evans and Sheldon 2008; Schlosser et al.2003 |
| *Spheniscus magellanicus* | 0.432 | 8.40 | 221.8842 | 4105 | 41.47 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| **Podicipediformes** |  |  |  |  |  |  |  |
| *Podiceps grisegena* | 0.833 | 11.00 | 6393.0292 | 1023 | 53.39 | Migratory | Sachs and Hughes 1999; Willoughby et al. 2015 |
| **Procellariiformes** |  |  |  |  |  |  |  |
| *Diomedea exulans* | 0.403 | 5.00 | 19615.0430 | 6961 | 48.16 | Migratory | Hughes 2010; Dubois et al. 2005 |
| *Oceanodroma castro* | 0.443 | 4.56 | 10073.5280 | 46 | 11.88 | Migratory | Sun et al. 2009; Willoughby et al. 2015 |
| *Oceanodroma leucorhoa* | 0.565 | 4.40 | 17449.7600 | 37 | 36.78 | Migratory | Bicknell et al. 2011; Willoughby et al. 2015 |
| *Procellaria aequinoctialis* | 0.547 | 5.30 | 20158.6220 | 1213 | 49.12 | Migratory | Evans and Sheldon 2008; Techow and O'Ryan 2004 |
| *Pterodroma arminjoniana* | 0.480 | 4.40 | 2604.1121 | 394 | 13.47 | Migratory | Brownet al. 2010; Willoughby et al. 2015 |
| *Puffinus carneipes* | 0.614 | 6.80 | 14852.9510 | 609 | 33.05 | Migratory | Hardesty et al. 2013; Willoughby et al. 2015 |
| *Puffinus yelkouan* | 0.530 | 4.63 | 486.0966 | 497 | 39.47 | Migratory | Genovart et al. 2012; Willoughby et al. 2015 |
| *Thalassarche bulleri* | 0.640 | 6.40 | 2569.8572 | 2782 | 40.92 | Migratory | Van Bekkum et al. 2006; Willoughby et al. 2015 |
| *Thalassarche cauta* | 0.590 | 4.00 | 3752.8479 | 3898 | 40.09 | Migratory | Abbott and Double 2003; Willoughby et al. 2015 |
| *Thalassarche chrysostoma* | 0.459 | 4.00 | 20522.3570 | 3499 | 49.84 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| **Pelecaniformes** |  |  |  |  |  |  |  |
| *Pelecanus erythrorhynchos* | 0.647 | 4.80 | 292.9164 | 5609 | 32.84 | Migratory | Hughes 2010; Hickmanet al. 2008 |
| *Pelecanus onocrotalus* | 0.723 | 8.90 | 145.1431 | 9322 | 16.55 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Phalacrocorax auritus* | 0.533 | 11.00 | 932.7618 | 1807 | 35.53 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Phalacrocorax carbo* | 0.854 | 27.30 | 3813.2313 | 2529 | 15.22 | Migratory | Minias et al. 2015 |
| *Phalacrocorax harrisi* | 0.563 | 4.75 | 0.0091 | 3017 | 0.32 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Sula nebouxii* | 0.621 | 7.09 | 454.2478 | 1520 | 4.34 | Resident | Hughes 2010; Faircloth et al. 2009 |
| *Sula sula* | 0.587 | 4.67 | 12985.5240 | 1031 | 7.15 | Migratory | An et al. 2010; Willoughby et al. 2015 |
| **Ciconiiformes** |  |  |  |  |  |  |  |
| *Ardea herodias* | 0.593 | 8.07 | 2457.1693 | 2523 | 21.17 | Migratory | Evans and Sheldon 2008; McGuire and Noor 2002 |
| *Bubulcus ibis* | 0.351 | 2.55 | 3536.3697 | 366 | 14.93 | Migratory | Campanini et al. 2012; Willoughby et al. 2015 |
| *Ciconia ciconia* | 0.410 | 3.46 | 1086.5040 | 3446 | 24.23 | Migratory | Shephard et al. 2009; Willoughby et al. 2015 |
| *Egretta eulophotes* | 0.553 | 4.65 | 19.0244 | 462 | 24.51 | Migratory | Dai et al. 2013; Willoughby et al. 2015 |
| *Egretta rufescens* | 0.541 | 4.33 | 41.7150 | 614 | 19.40 | Migratory | Hughes 2010; Hill and Green 2010 |
| *Eudocimus ruber* | 0.462 | 6.10 | 83.8764 | 660 | 4.63 | Resident | Santoset al. 2006; Willoughby et al. 2015 |
| *Geronticus eremita* | 0.656 | 5.00 | 22.6453 | 1202 | 26.60 | Migratory | Wirtzet al. 2016 |
| *Jabiru mycteria* | 0.446 | 4.13 | 979.6800 | 5996 | 10.32 | Migratory | Lopes et al. 2013; Willoughby et al. 2015 |
| *Mycteria americana* | 0.358 | 2.36 | 1569.0704 | 2555 | 20.02 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Nipponia nippon* | 0.121 | 2.25 | 0.3977 | 1900 | 32.46 | Resident | Evans and Sheldon 2008; Ji et al. 2004 |
| *Nycticorax nycticorax* | 0.728 | 7.45 | 6625.5850 | 810 | 17.26 | Migratory | Hughes 2010; Changet al. 2009a |
| *Platalea minor* | 0.709 | 8.00 | 2.8196 | 1228 | 28.22 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| **Anseriformes** |  |  |  |  |  |  |  |
| *Anas acuta* | 0.500 | 5.20 | 11787.0010 | 945 | 31.18 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Anas fulvigula* | 0.487 | 7.02 | 25.3957 | 1000 | 24.40 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Anas platyrhynchos* | 0.863 | 6.34 | 10726.6980 | 843 | 20.41 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Anser anser* | 0.439 | 4.40 | 3589.6598 | 3302 | 16.13 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Anser brachyrhynchus* | 0.534 | 4.00 | 211.5574 | 2642 | 63.16 | Migratory | Noreikiene et al. 2012b; Willoughbyet al. 2015 |
| *Anser cygnoides* | 0.564 | 4.18 | 520.0229 | 3512 | 40.27 | Migratory | Aurelle et al. 2010; Willoughby et al. 2015 |
| *Anser erythropus* | 0.513 | 3.60 | 1919.2407 | 1756 | 53.81 | Migratory | Ruokonen et al. 2010; Willoughby et al. 2015 |
| *Aythya ferina* | 0.554 | 6.06 | 4843.6331 | 823 | 42.84 | Migratory | St'oviceket al. 2011; Willoughby et al. 2015 |
| *Aythya fuligula* | 0.616 | 12.45 | 7559.4197 | 701 | 39.73 | Migratory | Liu et al. 2012; Willoughby et al. 2015 |
| *Aythya marila* | 0.343 | 3.86 | 6699.3352 | 1005 | 53.31 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Branta bernicla* | 0.800 | 11.51 | 5272.5826 | 1278 | 55.45 | Migratory | Harrison et al. 2010; Willoughby et al. 2015 |
| *Branta canadensis* | 0.549 | 18.50 | 3891.7250 | 2812 | 44.15 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Branta sandvicensis* | 0.481 | 3.13 | 0.7640 | 2044 | 20.10 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Bucephala islandica* | 0.685 | 8.74 | 766.4302 | 921 | 55.48 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Cairina moschata* | 0.569 | 4.27 | 1515.7141 | 2416 | 7.45 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Cygnus buccinator* | 0.290 | 2.25 | 509.9281 | 11071 | 45.51 | Migratory | Ransler et al. 2011; Willoughby et al. 2015 |
| *Mergus merganser* | 0.500 | 6.89 | 7956.5606 | 1451 | 44.93 | Migratory | Gautschi and Koller 2005; Willoughby et al. 2015 |
| *Oxyura jamaicensis* | 0.507 | 6.30 | 1431.3960 | 608 | 36.37 | Migratory | Evans and Sheldon 2008; Munoz-Fuentes et al.2005 |
| *Oxyura leucocephala* | 0.321 | 2.60 | 940.2385 | 661 | 42.76 | Migratory | Evans and Sheldon 2008; Munoz-Fuentes et al. 2005 |
| *Polysticta stelleri* | 0.567 | 5.00 | 1116.3238 | 807 | 63.49 | Migratory | Evans and Sheldon 2008; Fields and Scribner 1997 |
| *Somateria fischeri* | 0.484 | 8.00 | 809.3039 | 1557 | 65.81 | Migratory | Evans and Sheldon 2008; Scribner et al. 2001 |
| *Somateria mollissima* | 0.646 | 8.75 | 2175.2450 | 2061 | 61.38 | Migratory | Evans and Sheldon 2008; Öst et al.2005 |
| *Somateria spectabilis* | 0.310 | 7.00 | 4288.7521 | 1617 | 64.21 | Migratory | Evans and Sheldon 2008; Pearceet al.2004 |
| **Falconiformes** |  |  |  |  |  |  |  |
| *Aquila adalberti* | 0.549 | 4.89 | 21.7241 | 2958 | 39.06 | Resident | Martinez-Cruz et al. 2004; Willoughby et al. 2015 |
| *Aquila audax* | 0.333 | 3.00 | 959.1119 | 3450 | 25.74 | Resident | Burridge et al. 2013; Willoughby et al. 2015 |
| *Aquila chrysaetos* | 0.489 | 4.00 | 11830.0020 | 4248 | 52.68 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Aquila heliaca* | 0.624 | 3.30 | 2332.2471 | 3125 | 37.68 | Migratory | Evans and Sheldon 2008; Martinez-Cruz et al. 2002 |
| *Buteo buteo* | 0.535 | 4.46 | 3500.4808 | 759 | 32.16 | Migratory | Evans and Sheldon 2008; Johnson et al. 2005 |
| *Buteo jamaicensis* | 0.740 | 15.12 | 3430.1352 | 1101 | 36.83 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Buteo ridgwayi* | 0.780 | 9.27 | 3.9746 | 866 | 18.97 | Resident | Woolaver et al. 2013; Willoughbyet al. 2015 |
| *Buteo swainsoni* | 0.848 | 18.88 | 1700.9534 | 947 | 12.19 | Migratory | Hughes 2010; Hullet al. 2007 |
| *Circus cyaneus* | 0.527 | 5.20 | 6496.0909 | 393 | 45.91 | Migratory | Baker et al. 2011; Willoughby et al. 2015 |
| *Circus macrourus* | 0.657 | 7.00 | 1567.2245 | 384 | 29.46 | Migratory | Baker et al. 2011; Willoughby et al. 2015 |
| *Circus pygargus* | 0.544 | 4.67 | 1676.9431 | 311 | 28.23 | Migratory | Baker et al. 2011; Willoughbyet al. 2015 |
| *Falco cherrug* | 0.570 | 5.40 | 2528.7250 | 961 | 34.80 | Migratory | Johnson et al. 2007; Willoughby et al. 2015 |
| *Falco columbarius* | 0.581 | 5.14 | 3329.0540 | 189 | 29.79 | Migratory | Evans and Sheldon 2008; Nesje et al. 2000 |
| *Falco naumanni* | 0.681 | 7.93 | 1962.5296 | 152 | 26.91 | Migratory | Padilla et al. 2009; Willoughby et al. 2015 |
| *Falco rusticolus* | 0.451 | 3.10 | 7140.9185 | 1432 | 66.38 | Migratory | Johnson et al. 2007; Willoughby et al. 2015 |
| *Falco sparverius* | 0.493 | 4.20 | 4764.0224 | 115 | 20.17 | Migratory | Miller et al. 2012; Willoughby et al. 2015 |
| *Falco subbuteo* | 0.595 | 3.45 | 7707.9679 | 208 | 24.32 | Migratory | Evans and Sheldon 2008; Nesjeet al. 2000 |
| *Falco tinnunculus* | 0.700 | 5.93 | 10022.4280 | 183 | 32.12 | Migratory | Padilla et al. 2009; Willoughby et al. 2015 |
| *Gypaetus barbatus* | 0.589 | 6.07 | 1335.1984 | 5695 | 36.73 | Resident | Evans and Sheldon 2008; Gautshi et al.2000 |
| *Gyps fulvus* | 0.652 | 5.00 | 500.5587 | 7436 | 34.32 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Haliaeetus albicilla* | 0.468 | 4.00 | 7177.5776 | 4729 | 53.12 | Migratory | Hailer et al. 2005; Willoughby et al. 2015 |
| *Haliaeetus vociferoides* | 0.396 | 2.36 | 5.7836 | 3000 | 17.15 | Resident | Hughes 2010; Tingay et al. 2007 |
| *Hieraaetus spilogaster* | 0.551 | 4.00 | 1305.7188 | 2193 | 2.86 | Resident | Mira et al. 2005; Willoughby et al. 2015 |
| *Neophron percnopterus* | 0.530 | 4.72 | 2498.7398 | 2082 | 22.70 | Migratory | Agudo et al. 2008; Willoughbyet al. 2015 |
| *Nisaetus nipalensis* | 0.560 | 3.67 | 274.7814 | 3005 | 26.77 | Migratory | Hirai and Yamazaki 2010; Willoughby et al. 2015 |
| *Pandion haliaetus* | 0.682 | 2.20 | 8874.9655 | 1483 | 25.28 | Migratory | Dawson et al. 2015 |
| *Pernis ptilorhyncus* | 0.640 | 5.60 | 1825.8610 | 1141 | 26.63 | Migratory | Weng et al. 2009; Willoughby et al. 2015 |
| *Spilornis cheela* | 0.500 | 3.83 | 769.2831 | 598 | 25.19 | Resident | Hsu et al. 2013; Willoughbyet al. 2015 |
| **Galliformes** |  |  |  |  |  |  |  |
| *Alectoris graeca* | 0.380 | 5.50 | 100.5970 | 594 | 42.95 | Resident | Randiet al. 2003; Willoughby et al. 2015 |
| *Alectoris rufa* | 0.685 | 9.36 | 217.7153 | 528 | 47.77 | Resident | Hughes 2010; Ferrero et al. 2007 |
| *Alectura lathami* | 0.652 | 7.71 | 76.5912 | 2333 | 22.76 | Resident | Martinset al. 2013; Willoughby et al. 2015 |
| *Bonasa bonasia* | 0.561 | 10.50 | 5803.3875 | 429 | 58.01 | Resident | Sahlsten et al. 2008; Willoughby et al. 2015 |
| *Callipepla squamata* | 0.707 | 6.00 | 189.3439 | 184 | 29.90 | Resident | Orange et al. 2014 |
| *Centrocercus urophasianus* | 0.614 | 16.20 | 252.0480 | 1903 | 43.61 | Resident | Taylor et al. 2003; Willoughby et al. 2015 |
| *Chrysolophus pictus* | 0.772 | 11.93 | 130.9644 | 555 | 41.26 | Resident | Hughes 2010; He et al. 2009 |
| *Colinus virginianus* | 0.646 | 6.48 | 652.4172 | 172 | 34.48 | Resident | Evans and Sheldon 2008; Schable et al.2004 |
| *Crax globulosa* | 0.717 | 5.67 | 6.0640 | 2500 | 7.78 | Resident | Hughes and Larson 2000; Willoughby et al. 2015 |
| *Crossoptilon mantchuricum* | 0.669 | 6.13 | 31.0051 | 1861 | 39.53 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Lagopus leucura* | 0.765 | 10.22 | 629.8347 | 355 | 57.42 | Resident | Fedy et al. 2008; Willoughby et al. 2015 |
| *Lagopus muta* | 0.870 | 13.00 | 9697.0076 | 535 | 63.64 | Resident | Caizergues et al. 2003a; Willoughby et al. 2015 |
| *Numida meleagris* | 0.419 | 3.39 | 1459.9605 | 1299 | 2.54 | Resident | Botchway et al. 2013; Willoughby et al. 2015 |
| *Odontophorus leucolaemus* | 0.802 | 10.22 | 0.9749 | 295 | 9.53 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Perdix perdix* | 0.665 | 4.27 | 3314.3820 | 405 | 18.31 | Resident | Bech et al. 2014 |
| *Syrmaticus ellioti* | 0.376 | 7.25 | 59.4388 | 1008 | 27.43 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Syrmaticus reevesii* | 0.569 | 7.10 | 71.7454 | 1205 | 30.57 | Resident | Hughes 2010; Wang et al. 2009 |
| *Tetrao tetrix* | 0.759 | 11.00 | 4817.1348 | 1069 | 56.88 | Resident | Evans and Sheldon 2008; Caizergues et al. 2003b |
| *Tetraophasis szechenyii* | 0.765 | 5.20 | 70.0761 | 1053 | 30.15 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Tragopan temminckii* | 0.768 | 12.25 | 163.0218 | 1163 | 28.33 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Tympanuchus cupido* | 0.731 | 10.50 | 613.1106 | 870 | 42.19 | Resident | Johnson et al. 2003; Willoughby et al. 2015 |
| *Tympanuchus pallidicinctus* | 0.697 | 4.33 | 77.0169 | 746 | 35.68 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| **Gruiformes** |  |  |  |  |  |  |  |
| *Amaurornis olivieri* | 0.544 | 4.59 | 4.8404 | 157 | 18.01 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Balearica regulorum* | 0.661 | 7.57 | 378.2265 | 3772 | 12.81 | Resident | Meares et al. 2008; Willoughby et al. 2015 |
| *Chlamydotis undulata* | 0.543 | 4.45 | 440.4996 | 1501 | 28.24 | Resident | Chbel et al. 2002; Willoughby et al. 2015 |
| *Crex crex* | 0.899 | 12.89 | 3689.0122 | 155 | 25.71 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Grus americana* | 0.455 | 3.80 | 88.1846 | 5826 | 41.10 | Migratory | Hughes 2010; Jones et al. 2010 |
| *Grus canadensis* | 0.575 | 3.79 | 3824.2458 | 4296 | 45.94 | Migratory | Hughes 2010; Jones et al. 2010 |
| *Grus japonensis* | 0.549 | 2.80 | 164.9847 | 8786 | 40.78 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Mesitornis variegatus* | 0.702 | 6.10 | 4.3794 | 113 | 18.08 | Resident | Gamero et al. 2013; Willoughby et al. 2015 |
| *Monias benschi* | 0.471 | 5.56 | 1.4406 | 138 | 22.42 | Resident | Seddon et al. 2005; Willoughby et al. 2015 |
| *Otis tarda* | 0.513 | 4.21 | 1227.5218 | 6760 | 43.35 | Migratory | Horreoet al. 2013; Willoughby et al. 2015 |
| *Porphyrio hochstetteri* | 0.405 | 2.25 | 1.2029 | 2462 | 45.27 | Resident | Grueber et al. 2015 |
| *Rallus elegans* | 0.844 | 13.56 | 497.5290 | 313 | 34.64 | Migratory | Brackett et al.2013; Willoughby et al. 2015 |
| **Charadriiformes** |  |  |  |  |  |  |  |
| *Aethia cristatella* | 0.819 | 9.89 | 156.1068 | 259 | 53.10 | Resident | Evans and Sheldon 2008; Dawson et al. 2005b |
| *Aethia psittacula* | 0.687 | 15.00 | 130.5203 | 270 | 53.24 | Resident | Dawson et al. 2005b; Willoughby et al. 2015 |
| *Brachyramphus marmoratus* | 0.661 | 6.16 | 494.0573 | 220 | 53.51 | Resident | Rew et al. 2006; Willoughby et al. 2015 |
| *Burhinus oedicnemus* | 0.739 | 8.60 | 1610.2031 | 459 | 31.93 | Migratory | Mori et al. 2014 |
| *Calidris melanotos* | 0.872 | 15.50 | 2044.3691 | 80 | 19.78 | Migratory | Carter and Kempenaers 2007; Willoughby et al. 2015 |
| *Calidris ptilocnemis* | 0.820 | 14.75 | 144.5699 | 81 | 57.25 | Migratory | Pruett et al. 2014  |
| *Cerorhinca monocerata* | 0.614 | 6.13 | 79.7498 | 482 | 46.46 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Charadrius alexandrinus* | 0.755 | 8.65 | 2475.3323 | 42 | 15.02 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Charadrius montanus* | 0.481 | 5.04 | 135.7579 | 96 | 35.43 | Migratory | Hughes 2010; John et al. 2007 |
| *Chlidonias hybrida* | 0.516 | 7.18 | 1478.1775 | 84 | 9.98 | Migratory | Arranzet al. 2013; Willoughby et al. 2015 |
| *Coenocorypha pusilla* | 0.034 | 1.44 | 0.0009 | 81 | 44.30 | Resident | Baker et al. 2010; Willoughbyet al. 2015 |
| *Haematopus ostralegus* | 0.455 | 3.25 | 2694.7027 | 526 | 23.83 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Himantopus himantopus* | 0.786 | 7.13 | 8359.3988 | 177 | 17.81 | Migratory | Steeveset al. 2008; Willoughby et al. 2015 |
| *Larus argentatus* | 0.519 | 5.00 | 729.0110 | 1091 | 59.33 | Migratory | Hughes 2010; Gay et al. 2007 |
| *Larus cachinnans* | 0.549 | 6.11 | 334.7841 | 1112 | 38.96 | Migratory | Hughes 2010; Gay et al. 2007 |
| *Larus novaehollandiae* | 0.564 | 7.30 | 591.6443 | 269 | 23.86 | Migratory | Evans and Sheldon 2008; Given et al. 2002 |
| *Limosa limosa* | 0.682 | 8.67 | 3293.2344 | 288 | 36.46 | Migratory | Verkuil et al. 2009; Willoughby et al. 2015 |
| *Numenius tahitiensis* | 0.512 | 5.40 | 22.9766 | 400 | 25.68 | Migratory | Sonsthagen et al. 2014 |
| *Pagophila eburnea* | 0.709 | 7.05 | 1073.2881 | 550 | 76.11 | Migratory | Yannic et al. 2011; Willoughby et al. 2015 |
| *Philomachus pugnax* | 0.719 | 19.11 | 4749.8051 | 132 | 21.05 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Rissa tridactyla* | 0.591 | 6.57 | 1124.5314 | 416 | 41.35 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Scolopax rusticola* | 0.640 | 6.40 | 4800.3709 | 308 | 45.29 | Migratory | Hughes 2010; Cardia et al. 2007 |
| *Sterna albifrons* | 0.463 | 3.66 | 2404.6231 | 57 | 5.50 | Migratory | Noreikiene et al. 2012a; Willoughby et al. 2015 |
| *Sterna hirundo* | 0.710 | 5.71 | 8286.4592 | 129 | 14.72 | Migratory | Szczys et al. 2012; Willoughby et al. 2015 |
| *Synthliboramphus hypoleucus* | 0.575 | 6.25 | 72.1897 | 167 | 32.97 | Resident | Birt et al. 2010; Willoughby et al. 2015 |
| *Uria aalge* | 0.690 | 18.60 | 559.3555 | 992 | 57.86 | Migratory | Ibarguchi et al. 2000; Willoughby et al. 2015 |
| *Uria lomvia* | 0.817 | 18.60 | 1660.9548 | 964 | 62.81 | Migratory | Ibarguchi et al. 2000; Willoughby et al. 2015 |
| **Columbiformes** |  |  |  |  |  |  |  |
| *Patagioenas squamosa* | 0.693 | 6.73 | 23.0474 | 312 | 13.75 | Resident | Baker et al. 2011; Willoughby et al. 2015 |
| *Zenaida aurita* | 0.790 | 9.15 | 26.2954 | 156 | 22.54 | Resident | Monceau et al. 2013; Willoughby et al. 2015 |
| **Psittaciformes** |  |  |  |  |  |  |  |
| *Amazona farinosa* | 0.755 | 11.44 | 692.0493 | 626 | 3.63 | Resident | Gebhardt and Waits 2008; Willoughby et al. 2015 |
| *Amazona guildingii* | 0.556 | 4.67 | 0.0045 | 646 | 13.25 | Resident | Evans and Sheldon 2008; Russello et al. 2001 |
| *Amazona leucocephala* | 0.510 | 3.20 | 14.4449 | 235 | 21.89 | Resident | Russello et al. 2010; Willoughby et al. 2015 |
| *Amazona vittata* | 0.676 | 4.28 | 0.9917 | 279 | 18.28 | Resident | Afanadoret al. 2014 |
| *Ara ararauna* | 0.720 | 7.40 | 806.6543 | 1125 | 0.51 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Ara chloropterus* | 0.574 | 5.90 | 832.7031 | 1214 | 5.12 | Resident | Gebhardt and Waits 2008; Willoughbyet al. 2015 |
| *Ara macao* | 0.735 | 7.45 | 717.9264 | 1015 | 6.85 | Resident | Gebhardt and Waits 2008; Willoughby et al. 2015 |
| *Calyptorhynchus latirostris* | 0.688 | 6.60 | 5.7780 | 612 | 32.01 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Cyanoramphus auriceps* | 0.450 | 3.06 | 12.2467 | 46 | 43.04 | Resident | Andrews et al. 2013; Willoughbyet al. 2015 |
| *Cyanoramphus forbesi* | 0.475 | 4.14 | 0.0130 | 90 | 44.28 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Cyanoramphus malherbi* | 0.350 | 3.28 | 8.9281 | 47 | 42.56 | Resident | Andrews et al. 2013; Willoughby et al. 2015 |
| *Cyanoramphus novaezelandiae* | 0.454 | 3.79 | 50.4688 | 90 | 34.23 | Resident | Grueber et al. 2015 |
| *Myiopsitta monachus* | 0.640 | 6.00 | 379.9094 | 120 | 7.77 | Resident | da Silva et al. 2010; Willoughby et al. 2015 |
| *Nestor meridionalis* | 0.420 | 6.20 | 16.7309 | 428 | 40.13 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Poicephalus robustus* | 0.629 | 7.00 | 380.4933 | 343 | 10.05 | Resident | Hughes 2010; Pillay et al. 2010 |
| *Psittacula eques* | 0.678 | 5.57 | 0.1148 | 163 | 20.38 | Resident | Raisin et al. 2009; Willoughby et al. 2015 |
| *Psittacus erithacus* | 0.742 | 8.50 | 276.7839 | 333 | 0.11 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Pyrrhura orcesi* | 0.641 | 5.64 | 0.0747 | 71 | 3.26 | Resident | Aurelle et al. 2010; Willoughby et al. 2015 |
| *Strigops habroptila* | 0.480 | 3.33 | 3.5960 | 1732 | 43.51 | Resident | Robertson et al. 2009; Willoughby et al. 2015 |
| **Cuculiformes** |  |  |  |  |  |  |  |
| *Centropus phasianinus* | 0.638 | 6.00 | 298.4076 | 382 | 17.67 | Resident | Maurer et al. 2005; Willoughby et al. 2015 |
| *Chrysococcyx basalis* | 0.780 | 12.10 | 959.9697 | 23 | 14.77 | Migratory | Hughes 2010; Adcock et al. 2007 |
| *Chrysococcyx lucidus* | 0.760 | 7.60 | 375.8247 | 24 | 23.69 | Migratory | Hughes 2010; Adcock et al. 2007 |
| *Chrysococcyx minutillus* | 0.780 | 10.60 | 309.2685 | 19 | 18.89 | Migratory | Hughes 2010; Adcock et al. 2007 |
| *Clamator glandarius* | 0.654 | 6.70 | 1506.1408 | 143 | 8.37 | Migratory | Evans and Sheldon 2008; Martinez et al. 1998 |
| *Crotophaga ani* | 0.755 | 6.20 | 1508.4006 | 110 | 12.48 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Cuculus canorus* | 0.832 | 13.29 | 10380.2840 | 111 | 27.15 | Migratory | Gibbs et al. 1998; Willoughby et al. 2015 |
| *Geococcyx californianus* | 0.761 | 9.67 | 410.2958 | 376 | 30.77 | Resident | MacDonald et al. 2013; Willoughby et al. 2015 |
| *Guira guira* | 0.768 | 9.90 | 945.2600 | 141 | 20.34 | Migratory | Evans and Sheldon 2008; Muniz et al. 2003 |
| **Strigiformes** |  |  |  |  |  |  |  |
| *Aegolius funereus* | 0.502 | 6.14 | 8305.3672 | 137 | 56.76 | Migratory | Evans and Sheldon 2008; Koopman et al. 2004 |
| *Athene cunicularia* | 0.816 | 11.55 | 2011.8752 | 151 | 6.36 | Migratory | Macias-Duarte et al. 2010; Willoughby et al. 2015 |
| *Athene noctua* | 0.713 | 6.17 | 4828.9027 | 169 | 43.24 | Resident | Aurelle et al. 2010; Willoughby et al. 2015 |
| *Bubo bubo* | 0.664 | 4.86 | 8156.1257 | 2669 | 49.32 | Resident | Kleven et al. 2013; Willoughby et al. 2015 |
| *Glaucidium brasilianum* | 0.667 | 10.40 | 1545.9643 | 75 | 7.12 | Resident | Evans and Sheldon 2008; Proudfoot et al. 2005 |
| *Ninox connivens* | 0.594 | 6.75 | 341.5938 | 578 | 24.17 | Resident | Hogan et al. 2009; Willoughby et al. 2015 |
| *Ninox novaeseelandiae* | 0.756 | 9.56 | 48.5585 | 183 | 41.78 | Resident | Hogan et al. 2009; Willoughby et al. 2015 |
| *Ninox strenua* | 0.589 | 4.64 | 80.6379 | 1346 | 32.12 | Resident | Hughes 2010; Hogan et al. 2007 |
| *Otus elegans* | 0.797 | 11.17 | 0.4912 | 124 | 25.80 | Resident | Evans and Sheldon 2008; Hsu et al. 2003 |
| *Strix aluco* | 0.667 | 7.43 | 2359.6237 | 473 | 49.51 | Resident | Brito 2007; Willoughby et al. 2015 |
| *Strix nebulosa* | 0.580 | 4.06 | 7638.8786 | 1062 | 58.21 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Strix occidentalis* | 0.786 | 9.86 | 188.7561 | 586 | 42.62 | Resident | Thode et al.2002; Willoughby et al. 2015 |
| *Tyto alba* | 0.600 | 4.14 | 7897.3586 | 403 | 9.91 | Resident | Burri et al. 2008; Willoughby et al. 2015 |
| **Apodiformes** |  |  |  |  |  |  |  |
| *Eulampis jugularis* | 0.420 | 3.15 | 0.5623 | 9 | 13.76 | Resident | Khimounet al. 2016 |
| *Selasphorus platycercus* | 0.705 | 9.40 | 100.2742 | 4 | 33.91 | Migratory | Oyler-McCance et al. 2011; Willoughby et al. 2015 |
| *Trochilus polytmus* | 0.649 | 5.57 | 1.1318 | 5 | 18.16 | Resident | Lance et al. 2009; Willoughby et al. 2015 |
| *Trochilus scitulus* | 0.625 | 5.71 | 0.0881 | 4 | 18.06 | Resident | Lance et al. 2009; Willoughby et al. 2015 |
| **Coraciiformes** |  |  |  |  |  |  |  |
| *Buceros bicornis* | 0.666 | 10.67 | 325.9943 | 2791 | 15.78 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Ceyx pictus* | 0.824 | 8.15 | 1439.5868 | 13 | 1.61 | Migratory | Evans and Sheldon 2008; Bardeleben and Gray 2005b |
| *Merops ornatus* | 0.688 | 7.00 | 797.6211 | 30 | 16.33 | Migratory | Adcock et al. 2006; Willoughby et al. 2015 |
| *Upupa epops* | 0.760 | 7.89 | 7412.2129 | 67 | 20.84 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| **Piciformes** |  |  |  |  |  |  |  |
| *Colaptes auratus* | 0.849 | 16.00 | 2904.1978 | 132 | 40.86 | Migratory | Hughes 2010; Kuhn et al. 2009 |
| *Dendrocopos medius* | 0.632 | 4.50 | 876.1114 | 59 | 47.61 | Resident | Vila et al. 2008; Willoughby et al. 2015 |
| *Picoides arcticus* | 0.576 | 6.91 | 2087.2948 | 69 | 54.53 | Resident | Pierson et al. 2010; Willoughby et al. 2015 |
| *Picoides borealis* | 0.640 | 6.25 | 128.3513 | 48 | 33.32 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Picoides tridactylus* | 0.709 | 7.65 | 8625.8116 | 66 | 57.81 | Resident | Hughes 2010; Willoughby et al. 2015 |
| **Passeriformes** |  |  |  |  |  |  |  |
| *Acanthisitta chloris* | 0.680 | 5.56 | 37.0967 | 7 | 42.18 | Resident | Preston et al. 2013; Willoughby et al. 2015 |
| *Acridotheres tristis* | 0.636 | 4.92 | 1058.3088 | 116 | 7.47 | Resident | Berthouly-Salazar et al. 2012; Willoughby et al. 2015 |
| *Acrocephalus arundinaceus* | 0.578 | 10.57 | 3792.5312 | 30 | 14.32 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Acrocephalus paludicola* | 0.515 | 5.45 | 487.1428 | 12 | 42.87 | Migratory | Salewski et al. 2012; Willoughby et al. 2015 |
| *Acrocephalus sechellensis* | 0.543 | 3.50 | 0.0004 | 16 | 4.14 | Resident | Hughes 2010; Brouwer et al. 2007 |
| *Aegithalos caudatus* | 0.676 | 11.60 | 4940.4587 | 9 | 56.14 | Resident | Simeoni et al. 2007; Willoughby et al. 2015 |
| *Ammodramus caudacutus* | 0.831 | 14.70 | 23.2602 | 19 | 37.50 | Migratory | Hughes 2010; Hill et al. 2008 |
| *Ammodramus maritimus* | 0.810 | 9.64 | 25.1665 | 22 | 32.02 | Resident | Lehmicke et al. 2012; Willoughby et al. 2015 |
| *Ammodramus savannarum* | 0.740 | 13.20 | 915.6667 | 18 | 28.55 | Migratory | Bulgin et al. 2003; Willoughby et al. 2015 |
| *Andropadus virens* | 0.659 | 7.15 | 584.3395 | 27 | 0.73 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Anthornis melanura* | 0.571 | 4.17 | 38.6297 | 27 | 41.86 | Resident | Paterson et al. 2010; Willoughby et al. 2015 |
| *Anthus spragueii* | 0.780 | 9.20 | 311.9156 | 26 | 46.14 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Aphelocoma coerulescens* | 0.590 | 5.97 | 8.3429 | 77 | 28.09 | Resident | Stenzler and Fitzpatrick 2002; Willoughby et al. 2015 |
| *Aphelocoma insularis* | 0.647 | 6.70 | 0.0369 | 116 | 34.02 | Resident | Evans and Sheldon 2008; Delaney and Wayne 2005 |
| *Aphelocoma ultramarina* | 0.908 | 15.33 | 9.9195 | 113 | 19.81 | Resident | Evans and Sheldon 2008; Li et al. 1997 |
| *Atrichornis clamosus* | 0.523 | 3.33 | 0.0240 | 42 | 34.31 | Resident | Cowen et al. 2013; Willoughby et al. 2015 |
| *Bucanetes githagineus* | 0.761 | 3.01 | 924.9900 | 20 | 30.26 | Resident | Barrientos et al. 2014; Willoughby et al. 2015 |
| *Buphagus erythrorhynchus* | 0.781 | 8.30 | 303.4482 | 51 | 4.83 | Resident | Spies et al. 2012; Willoughby et al. 2015 |
| *Calocitta formosa* | 0.752 | 9.00 | 31.6745 | 210 | 13.60 | Resident | Evans and Sheldon 2008; Williams et al. 2004 |
| *Carduelis tristis* | 0.887 | 23.38 | 1551.7015 | 13 | 37.15 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Carpodacus mexicanus* | 0.877 | 16.24 | 1192.1211 | 21 | 37.72 | Resident | Hughes 2010; Oh and Badyaev 2009 |
| *Catharus bicknelli* | 0.757 | 10.80 | 8.4714 | 28 | 26.01 | Migratory | Evans and Sheldon 2008; Goetz et al. 2003 |
| *Catharus ustulatus* | 0.830 | 11.33 | 2371.9724 | 30 | 23.52 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Certhidea olivacea* | 0.370 | 7.10 | 0.7802 | 10 | 0.55 | Resident | Petren et al. 2005; Willoughby et al. 2015 |
| *Cettia diphone* | 0.658 | 10.00 | 331.0564 | 13 | 29.44 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Chasiempis sandwichensis* | 0.613 | 7.69 | 1.0622 | 14 | 19.60 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Chersophilus duponti* | 0.601 | 6.21 | 42.4641 | 39 | 34.51 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Chiroxiphia caudata* | 0.821 | 11.00 | 174.0261 | 26 | 23.46 | Resident | Evans and Sheldon 2008; Francisco et al. 2004 |
| *Chiroxiphia lanceolata* | 0.663 | 8.27 | 42.5033 | 19 | 8.42 | Resident | Hughes 2010; Duval et al. 2007 |
| *Cinclus cinclus* | 0.699 | 12.39 | 2071.5210 | 62 | 52.41 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Climacteris picumnus* | 0.605 | 8.88 | 298.9150 | 29 | 28.79 | Resident | Evans and Sheldon 2008; Doerr 2005 |
| *Coracina newtoni* | 0.492 | 3.61 | 0.0618 | 68 | 21.05 | Resident | Salmona et al. 2010; Willoughby et al. 2015 |
| *Corapipo altera* | 0.717 | 10.13 | 18.4159 | 12 | 7.93 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Corcorax melanorhamphos* | 0.707 | 8.67 | 267.9417 | 364 | 30.38 | Resident | Evans and Sheldon 2008; Becket al. 2003 |
| *Corvus brachyrhynchos* | 0.800 | 12.09 | 2510.2074 | 449 | 42.95 | Migratory | Schoenle et al. 2007; Willoughby et al. 2015 |
| *Corvus corax* | 0.680 | 11.50 | 18486.8070 | 928 | 55.94 | Resident | Fleischer et al. 2008; Willoughby et al. 2015 |
| *Corvus corone* | 0.641 | 6.75 | 10065.3150 | 570 | 46.22 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Corvus kubaryi* | 0.163 | 1.78 | 0.0230 | 250 | 13.87 | Resident | Tarr and Fleischer 1999; Willoughbyet al. 2015 |
| *Cyanocitta stelleri* | 0.680 | 6.20 | 656.9134 | 128 | 41.37 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Cyanocompsa brissonii* | 0.811 | 12.00 | 673.4162 | 28 | 19.44 | Resident | Ferreira et al. 2014 |
| *Cyanocorax morio* | 0.801 | 9.14 | 74.9344 | 243 | 17.86 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Cyphorhinus phaeocephalus* | 0.745 | 7.50 | 29.9079 | 25 | 6.82 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Dasyornis brachypterus* | 0.799 | 8.30 | 4.4879 | 42 | 33.61 | Resident | Perrin and Roberts 2010; Willoughby et al. 2015 |
| *Dendroica caerulescens* | 0.832 | 20.60 | 228.9573 | 10 | 29.01 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Dendroica cerulea* | 0.770 | 14.00 | 139.6955 | 9 | 23.17 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Dendroica chrysoparia* | 0.750 | 7.94 | 2.6502 | 10 | 22.74 | Migratory | Hughes 2010; Lindsay et al. 2008 |
| *Dendroica kirtlandii* | 0.735 | 6.48 | 2.8463 | 14 | 34.42 | Migratory | King et al. 2005; Willoughby et al. 2015 |
| *Dendroica petechia* | 0.710 | 14.67 | 4300.4637 | 10 | 20.78 | Migratory | Gibbs et al. 2000; Willoughby et al. 2015 |
| *Dendroica plumbea* | 0.670 | 5.43 | 0.2592 | 10 | 15.95 | Resident | Khimoun et al. 2016 |
| *Diglossa cyanea* | 0.889 | 12.64 | 40.1042 | 17 | 2.98 | Resident | Bardeleben and Gray 2005c; Willoughby et al. 2015 |
| *Drymodes brunneopygia* | 0.666 | 6.70 | 129.2277 | 33 | 32.61 | Resident | Scobleet al. 2012; Willoughby et al. 2015 |
| *Elaenia martinica* | 0.510 | 3.17 | 2.9978 | 21 | 16.32 | Resident | Khimounet al. 2016 |
| *Elaenia ruficeps* | 0.668 | 8.82 | 69.7210 | 19 | 3.79 | Resident | Ritter et al. 2014 |
| *Emberiza aureola* | 0.724 | 6.87 | 12103.3720 | 20 | 39.32 | Migratory | Yu et al. 2011; Willoughby et al. 2015 |
| *Emberiza citrinella* | 0.540 | 9.67 | 4346.8426 | 30 | 29.03 | Migratory | Hughes 2010; Wonke et al. 2007 |
| *Empidonax minimus* | 0.870 | 12.60 | 1532.3861 | 10 | 31.80 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Epthianura albifrons* | 0.801 | 18.61 | 370.4347 | 13 | 31.77 | Resident | King et al. 2012; Willoughby et al. 2015 |
| *Ficedula albicollis* | 0.873 | 23.62 | 600.3106 | 13 | 17.91 | Migratory | Krist and Munclinger 2011; Willoughby et al. 2015 |
| *Ficedula hypoleuca* | 0.800 | 13.52 | 2660.7106 | 14 | 28.29 | Migratory | Lederet al. 2008; Willoughby et al. 2015 |
| *Fringilla coelebs* | 0.651 | 9.70 | 3940.6046 | 24 | 18.02 | Migratory | Suarez et al. 2009a; Willoughby et al. 2015 |
| *Fringilla teydea* | 0.791 | 7.89 | 0.0568 | 30 | 28.21 | Resident | Suarez et al. 2009b; Willoughby et al. 2015 |
| *Galerida theklae* | 0.569 | 4.83 | 274.6245 | 38 | 27.92 | Resident | Mendez et al. 2011; Willoughby et al. 2015 |
| *Garrulax canorus* | 0.880 | 15.50 | 232.4925 | 63 | 26.91 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Garrulax morrisonianus* | 0.557 | 6.80 | 1.5718 | 73 | 23.82 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Geospiza fortis* | 0.710 | 4.69 | 0.7701 | 24 | 0.55 | Resident | Evans and Sheldon 2008; Grant et al. 2004 |
| *Geospiza scandens* | 0.670 | 7.10 | 0.7112 | 23 | 0.69 | Resident | Petren et al. 2005; Willoughby et al. 2015 |
| *Gymnorhina tibicen* | 0.731 | 10.38 | 881.8292 | 285 | 33.44 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Gymnorhinus cyanocephalus* | 0.755 | 17.88 | 213.5349 | 105 | 39.05 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Hemignathus virens* | 0.829 | 12.80 | 0.7138 | 14 | 20.34 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Hemixos castanonotus* | 0.593 | 6.50 | 117.8517 | 38 | 24.22 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Henicorhina leucophrys* | 0.836 | 11.75 | 74.6409 | 16 | 9.73 | Resident | Bowie et al. 2012; Willoughby et al. 2015 |
| *Heteromyias albispecularis* | 0.718 | 5.00 | 12.4518 | 36 | 5.07 | Resident | Bardeleben et al. 2005a; Willoughby et al. 2015 |
| *Himatione sanguinea* | 0.636 | 8.40 | 1.8747 | 15 | 23.00 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Hirundo rustica* | 0.800 | 21.14 | 12359.1230 | 18 | 15.78 | Migratory | Dor et al. 2012; Willoughby et al. 2015 |
| *Junco hyemalis* | 0.676 | 9.80 | 3111.4513 | 20 | 38.17 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Lagonosticta sanguinodorsalis* | 0.580 | 6.50 | 1.1178 | 11 | 9.72 | Resident | Abalaka et al. 2015 |
| *Lanius ludovicianus* | 0.483 | 4.00 | 1467.1125 | 52 | 31.78 | Migratory | Eggert et al. 2004; Willoughby et al. 2015 |
| *Limnothlypis swainsonii* | 0.746 | 6.00 | 163.9022 | 19 | 22.49 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Liocichla steerii* | 0.801 | 9.14 | 1.7231 | 31 | 23.84 | Resident | Yeung et al. 2004; Willoughby et al. 2015 |
| *Locustella pryeri* | 0.474 | 3.60 | 112.7782 | 14 | 39.30 | Migratory | Ishibashi et al. 2000; Willoughbyet al. 2015 |
| *Lonchura leucogastroides* | 0.489 | 3.57 | 20.1540 | 12 | 2.55 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Luscinia svecica* | 0.761 | 18.00 | 7565.4733 | 17 | 47.11 | Migratory | Hughes 2010; Johnsen et al. 2006 |
| *Malurus cyaneus* | 0.918 | 27.40 | 175.3574 | 10 | 32.39 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Malurus splendens* | 0.815 | 13.80 | 350.1081 | 9 | 28.18 | Resident | Evans and Sheldon 2008; Webster et al. 2004 |
| *Manacus manacus* | 0.720 | 14.88 | 770.5413 | 17 | 4.83 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Manorina melanophrys* | 0.612 | 7.20 | 45.2722 | 30 | 32.98 | Resident | Painter et al. 1997; Willoughby et al. 2015 |
| *Margarops fuscus* | 0.460 | 3.21 | 0.6614 | 67 | 15.91 | Resident | Khimounet al. 2016 |
| *Melospiza melodia* | 0.633 | 9.50 | 2402.9553 | 22 | 42.72 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Mimus macdonaldi* | 0.389 | 2.93 | 0.0067 | 70 | 1.38 | Resident | Hoecket al. 2009; Willoughby et al. 2015 |
| *Mimus melanotis* | 0.431 | 3.95 | 0.0550 | 51 | 0.83 | Resident | Hoeck et al. 2009; Willoughby et al. 2015 |
| *Mimus parvulus* | 0.546 | 5.09 | 0.6938 | 54 | 0.50 | Resident | Hoeck et al. 2009; Willoughby et al. 2015 |
| *Mimus polyglottos* | 0.766 | 10.60 | 1669.3555 | 49 | 22.94 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Mimus trifasciatus* | 0.450 | 2.69 | 0.0174 | 63 | 1.28 | Resident | Hoeck et al. 2009; Willoughbyet al. 2015 |
| *Mionectes striaticollis* | 0.775 | 7.55 | 32.6932 | 15 | 6.36 | Resident | Bardeleben and Gray 2005a; Willoughby et al. 2015 |
| *Modulatrix stictigula* | 0.855 | 8.70 | 7.2086 | 31 | 7.61 | Resident | Sellas et al. 2008; Willoughby et al. 2015 |
| *Mohoua ochrocephala* | 0.411 | 2.70 | 5.8961 | 28 | 45.33 | Resident | Grueber et al. 2015 |
| *Molothrus ater* | 0.815 | 18.50 | 2111.3994 | 40 | 31.82 | Migratory | Evans and Sheldon 2008; Strausberger and Ashley 2003 |
| *Myrmeciza exsul* | 0.666 | 7.60 | 36.5913 | 27 | 11.18 | Resident | Hughes 2010; Barnett et al.2007 |
| *Myzomela cardinalis* | 0.785 | 11.67 | 2.3954 | 14 | 15.14 | Resident | Thomassen et al. 2010; Willoughby et al. 2015 |
| *Neothraupis fasciata* | 0.540 | 4.63 | 243.6795 | 27 | 16.05 | Resident | Correaet al. 2010; Willoughby et al. 2015 |
| *Notiomystis cincta* | 0.652 | 5.15 | 0.0099 | 93 | 36.90 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Nucifraga columbiana* | 0.809 | 9.15 | 437.8960 | 130 | 36.60 | Resident | Oyler-McCance et al. 2013; Willoughby et al. 2015 |
| *Oenanthe oenanthe* | 0.635 | 8.80 | 11992.3140 | 25 | 36.33 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Orthonyx temminckii* | 0.663 | 12.80 | 22.2917 | 58 | 30.13 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Pachycephala pectoralis* | 0.850 | 15.17 | 288.6606 | 30 | 29.10 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Paradoxornis heudei* | 0.773 | 9.27 | 92.3092 | 21 | 44.99 | Resident | Hughes 2010; Chang et al. 2009b |
| *Paradoxornis webbianus* | 0.756 | 7.91 | 583.1481 | 11 | 34.37 | Resident | Qu et al. 2012; Willoughby et al. 2015 |
| *Paroaria dominicana* | 0.768 | 8.00 | 124.9072 | 33 | 9.17 | Resident | Ferreira et al.2014 |
| *Parus major* | 0.735 | 9.56 | 7371.1348 | 16 | 45.27 | Resident | Evans and Sheldon 2008; Saladin et al. 2003 |
| *Parus monticolus* | 0.767 | 9.33 | 222.0759 | 14 | 29.19 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Parus rufescens* | 0.680 | 9.14 | 236.1020 | 9 | 49.83 | Resident | Burg et al. 2006; Willoughby et al. 2015 |
| *Passer domesticus* | 0.598 | 6.00 | 13009.3810 | 27 | 2.47 | Resident | Hughes 2010; Garnier et al. 2009 |
| *Passer montanus* | 0.649 | 8.11 | 9308.5711 | 21 | 30.58 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Perisoreus infaustus* | 0.560 | 12.33 | 4485.5623 | 84 | 60.09 | Resident | Hughes 2010; Jaari et al. 2008 |
| *Petroica australis* | 0.437 | 3.00 | 14.1693 | 31 | 41.10 | Resident | Townsend et al. 2012; Willoughby et al. 2015 |
| *Petroica goodenovii* | 0.536 | 7.78 | 830.1590 | 9 | 26.88 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Petronia petronia* | 0.697 | 6.64 | 1671.5991 | 30 | 37.79 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Phaenostictus mcleannani* | 0.516 | 25.00 | 26.2410 | 51 | 8.99 | Resident | Chaves-Campos and DeWoody 2008; Willoughby et al. 2015 |
| *Philesturnus carunculatus* | 0.532 | 6.50 | 0.0192 | 75 | 43.24 | Resident | Taylor et al. 2007; Willoughby et al. 2015 |
| *Phylidonyris novaehollandiae* | 0.792 | 10.39 | 126.9667 | 20 | 34.87 | Resident | Myers et al. 2009; Willoughby et al. 2015 |
| *Phyllastrephus cabanisi* | 0.610 | 6.00 | 204.5762 | 34 | 7.87 | Resident | Callens et al. 2011; Willoughby et al. 2015 |
| *Phylloscopus trochilus* | 0.663 | 14.80 | 6846.1088 | 9 | 28.06 | Migratory | Hughes 2010; Bensch et al. 2009 |
| *Pica nuttalli* | 0.537 | 3.90 | 13.1953 | 158 | 37.35 | Resident | Ernest et al. 2008; Willoughby et al. 2015 |
| *Pica pica* | 0.772 | 10.10 | 8088.1568 | 218 | 40.74 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Pipra filicauda* | 0.749 | 15.86 | 262.9642 | 15 | 0.65 | Resident | Ryderet al. 2009; Willoughby et al. 2015 |
| *Pogonocichla stellata* | 0.685 | 11.60 | 171.4854 | 19 | 12.75 | Resident | Evans and Sheldon 2008; Galbusera et al. 2004 |
| *Pomarea dimidiata* | 0.634 | 4.00 | 0.0080 | 23 | 21.23 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Pomatostomus ruficeps* | 0.836 | 10.40 | 145.7403 | 58 | 30.72 | Resident | Hughes 2010; Holleley et al. 2009 |
| *Pomatostomus temporalis* | 0.845 | 9.89 | 445.2913 | 75 | 22.20 | Resident | Kawano et al. 2007; Willoughby et al. 2015 |
| *Procnias tricarunculatus* | 0.426 | 6.43 | 2.4380 | 210 | 10.36 | Resident | Saranathan et al. 2007; Willoughby et al. 2015 |
| *Progne subis* | 0.517 | 10.10 | 976.5754 | 54 | 7.27 | Migratory | Stanley et al. 2011; Willoughby et al. 2015 |
| *Promerops cafer* | 0.874 | 17.83 | 16.4026 | 35 | 33.39 | Resident | Feldheim et al. 2006; Willoughby et al. 2015 |
| *Promerops gurneyi* | 0.907 | 9.50 | 13.1212 | 35 | 27.01 | Resident | Feldheim et al. 2006; Willoughby et al. 2015 |
| *Prosthemadera novaeseelandiae* | 0.677 | 7.79 | 20.9628 | 106 | 39.07 | Resident | Wells et al. 2013; Willoughby et al. 2015 |
| *Prunella collaris* | 0.372 | 2.78 | 2047.5067 | 39 | 40.11 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Pseudonigrita arnaudi* | 0.739 | 11.89 | 47.6278 | 20 | 0.97 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Ptilonorhynchus violaceus* | 0.728 | 10.08 | 71.8311 | 219 | 30.82 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Pyrenestes ostrinus* | 0.835 | 15.80 | 477.2687 | 22 | 0.36 | Resident | Delaneyet al. 2005; Willoughby et al. 2015 |
| *Pyrrhocorax pyrrhocorax* | 0.443 | 8.75 | 2364.7119 | 277 | 40.43 | Resident | Wenzel et al. 2011; Willoughby et al. 2015 |
| *Quelea quelea* | 0.859 | 15.83 | 1139.8908 | 20 | 6.08 | Resident | Dallimeret al. 2002; Willoughby et al. 2015 |
| *Ramphocelus bresilius* | 0.480 | 4.32 | 41.8989 | 33 | 17.58 | Resident | Nogueiraet al. 2014 |
| *Ramphocelus costaricensis* | 0.834 | 13.86 | 1.8272 | 31 | 8.93 | Resident | Krueger and Williams 2006; Willoughby et al. 2015 |
| *Ramphocelus passerinii* | 0.834 | 13.86 | 22.2013 | 32 | 14.62 | Resident | Krueger and Williams 2006; Willoughby et al. 2015 |
| *Ramphocinclus brachyurus* | 0.590 | 4.67 | 0.1475 | 50 | 14.52 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Remiz pendulinus* | 0.712 | 5.22 | 1442.5685 | 9 | 41.65 | Migratory | Meszaros et al. 2008; Willoughbyet al. 2015 |
| *Rhipidura fuliginosa* | 0.904 | 14.00 | 211.0872 | 8 | 29.60 | Migratory | Jin et al. 2006; Willoughby et al. 2015 |
| *Riparia riparia* | 0.769 | 11.70 | 11815.3220 | 13 | 17.44 | Migratory | Hughes 2010; van Dongen et al. 2010 |
| *Saltator albicollis* | 0.320 | 2.51 | 0.4288 | 41 | 15.27 | Resident | Khimounet al. 2016 |
| *Sayornis phoebe* | 0.776 | 11.20 | 1437.4160 | 20 | 33.73 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Schetba rufa* | 0.794 | 10.00 | 45.6123 | 37 | 18.71 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Sericornis magnirostra* | 0.790 | 7.00 | 35.5462 | 10 | 28.58 | Resident | Bardeleben et al. 2005b; Willoughby et al. 2015 |
| *Sialia sialis* | 0.696 | 6.60 | 909.7642 | 28 | 31.77 | Migratory | Hughes 2010; Faircloth et al. 2006 |
| *Sitta pusilla* | 0.832 | 14.92 | 132.3945 | 10 | 29.59 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Spizella wortheni* | 0.690 | 11.56 | 7.1597 | 12 | 27.49 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Struthidea cinerea* | 0.780 | 6.33 | 312.4173 | 132 | 25.83 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Sturnus unicolor* | 0.700 | 6.75 | 135.6136 | 84 | 38.59 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Sylvia atricapilla* | 0.710 | 8.89 | 2819.6136 | 17 | 30.43 | Migratory | Aksoy et al. 2013; Willoughby et al. 2015 |
| *Tachycineta albilinea* | 0.769 | 13.80 | 82.9151 | 17 | 13.75 | Resident | Hughes 2010; Willoughby et al. 2015 |
| *Tachycineta bicolor* | 0.856 | 25.60 | 3349.8495 | 21 | 29.55 | Migratory | Hughes 2010; Makerewich et al. 2009 |
| *Tachycineta leucorrhoa* | 0.852 | 16.70 | 604.6165 | 15 | 16.90 | Migratory | Hughes 2010; Makerewichet al. 2009 |
| *Taeniopygia guttata* | 0.734 | 6.77 | 784.7665 | 12 | 25.26 | Resident | Dawson et al. 2005a; Willoughby et al. 2015 |
| *Tarsiger cyanurus* | 0.912 | 14.33 | 4148.9566 | 13 | 36.98 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Telespiza cantans* | 0.414 | 3.11 | 0.0004 | 33 | 25.77 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Terpsiphone mutata* | 0.727 | 12.00 | 66.7998 | 13 | 19.36 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Troglodytes troglodytes* | 0.708 | 9.60 | 5109.5540 | 10 | 43.15 | Migratory | Pruett et al. 2014  |
| *Turdus helleri* | 0.620 | 4.00 | 0.0190 | 69 | 3.59 | Resident | Callens et al. 2011; Willoughby et al. 2015 |
| *Turdus lherminieri* | 0.598 | 5.08 | 0.2195 | 105 | 15.81 | Resident | Ariaset al. 2012; Willoughby et al. 2015 |
| *Turdus merula* | 0.600 | 5.95 | 3246.0485 | 103 | 15.20 | Migratory | Hughes 2010; Willoughby et al. 2015 |
| *Urosphena squameiceps* | 0.638 | 10.31 | 191.9952 | 9 | 32.17 | Migratory | Kamioki et al. 2013; Willoughby et al. 2015 |
| *Vermivora chrysoptera* | 0.558 | 9.70 | 254.0936 | 9 | 27.96 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Vestiaria coccinea* | 0.798 | 11.20 | 2.2921 | 18 | 20.34 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Vidua chalybeata* | 0.752 | 8.18 | 733.8954 | 13 | 1.43 | Resident | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Vireo altiloquus* | 0.580 | 4.58 | 27.7265 | 19 | 17.15 | Migratory | Khimoun et al. 2016 |
| *Vireo atricapilla* | 0.826 | 11.00 | 62.8472 | 9 | 27.86 | Migratory | Barr et al. 2007; Willoughby et al. 2015 |
| *Wilsonia pusilla* | 0.757 | 8.00 | 2796.7420 | 7 | 38.58 | Migratory | Evans and Sheldon 2008; Clegget al. 2003 |
| *Xenicus gilviventris* | 0.553 | 4.54 | 2.1501 | 18 | 43.99 | Resident | Weston et al. 2016 |
| *Zonotrichia leucophrys* | 0.850 | 11.16 | 2885.6667 | 28 | 46.52 | Migratory | Poesel et al. 2009; Willoughby et al. 2015 |
| *Zosterops borbonicus* | 0.759 | 7.75 | 0.5050 | 8 | 20.77 | Resident | Bertrand et al. 2012; Willoughby et al. 2015 |
| *Zosterops flavifrons* | 0.152 | 4.20 | 1.3202 | 11 | 16.21 | Resident | Hughes 2010; Phillimore et al. 2008 |
| *Zosterops lateralis* | 0.731 | 6.83 | 380.0179 | 13 | 22.12 | Migratory | Evans and Sheldon 2008; Willoughby et al. 2015 |
| *Zosterops senegalensis* | 0.711 | 5.08 | 869.9596 | 11 | 0.99 | Resident | Oatley et al. 2013; Willoughby et al. 2015 |

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