**Utilizing Mitochondrial Barcode Sequencing to Evaluate Phylogeographic Structure and Guide the Reintroduction of Illegally Traded Amazon Parrots**

**Supplementary Material**

**Figure S1**

**Fig. S1.**  Consensus COI gene tree of the *Amazona ochrocephala* or "yellow-headed parrot” species complex, along with their corresponding support values as posterior probability PP (left) / bootstrap support (right). Only support values higher that 0.7/70 are shown. Tip colours indicate geographic locality.

**Table S1.** Number of samples, number of haplotypes and geographically delimitated genetic groups for the six species of Amazon parrots evaluated.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Species | Number of sequences known origin | Number of sequences Seized | Total number of sequences | Number of haplotypes of known origin | Number of haplotypes of known origin plus seized individuals | Phylogeographical clades | AMOVA test |
| *A. ochrocephala’s species complex* | 70 | 95 | 165 | 27 | 41 | NV=North Venezuela. *Amazona barbadensis*S=Southern South America. *Amazona o. ochrocephala* + *A. aestiva*EP-W= Colombian eastern plaints to west Amazonia. *Amazona o. ochrocephala*EP-E= Colombian eastern plaints to east South America (Guyana). *Amazona o. ochrocephala*N= North South America (North Colombia to Panama). *Amazona o. panamensis*AV= Colombian Middle Magdalena Andean Valley. *Amazona o. panamensis*CA= Middle America. *Amazona auropalliata* | p<0.001 |
| *A. farinosa* | 27 | 20 | 47 | 10 | 15 | TRA= Trans-Andean. West and north Colombia to Panama. *Amazona f. inornate*CIA-W= Western part of the Cis-Andean region. Colombian Amazon basin and likely in easter plains. *Amazona f. farinosa*CIA-E= Eastern part of the Cis-Andean region. *Amazona f. farinosa* | p<0.001 |
| *A. amazonica* | 22 | 26 | 48 | 12 | 24 | No significant structure. A single group from north Colombia to Brazil  | p=0.4 |
| *A. autumnalis* | 14 | 13 | 27 | 3 | 4 | No significant structure. A single group from west Colombia to north Panama  | P=1 |
| *A. festiva* | 4 | 2 | 6 | 2 | 2 | Northern group: Meta River in Colombia, most likely also in Orinoco River in Venezuela. *Amazona f. Bodini*Southern group: Amazon River to Caquetá River. *A. f. festiva* | p=0.08 |
| *A. mercenaria* | 3 | 0 | 3 | 2 | 2 | Central Andean cordilleraSierra Nevada de Santa Marta | NA |

**Table S2**. Information of the samples analyzed in the present study. IAvH: Instituto de Investigación de Recursos Biológicos Alexander von Humboldt; ICN: Instituto de Ciencias Naturales; STRI: Smithsonian Tropical Research Institute, NMNH: Smithsonian National Museum of Natural History. NFPC: Nanjing Forest Police College. Chicks identified taxonomically by molecular analysis are denoted by an asterisk. For seized individuals the most probable region of origin is shown based on the genetic analysis.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Species** | **COI Haplotype** | **Locality** | **Vaucher** | **ICN/BOLD Code** | **Source** |
| *Amazona amazonica* | NC-BR2 | Colombia, Atlántico, Luruaco, Los PendalesLat: 10.6166696548Lon: -75.2166671753 | ICN:10669 | PQ345090 | Present study |
| *Amazona amazonica* | NC-BR1 | Colombia, Atlántico, Ponedera, Puerto GiraldoLat: 10.5000000000Lon: -74.8166732788 | ICN:10698 | PQ345091 | Present study |
| *Amazona amazonica* | NC-BR1 | Colombia, Santander, Barrancabermeja, PerolesLat: 7.1666698460Lon: -73.9166717500 | ICN:10707 | PQ345092 | Present study |
| *Amazona amazonica* | NC-BR3 | Colombia, Santander, Puerto Parra, Rio OponcitoLat: 6.6500000950Lon: -73.9000015300 | ICN:10708 | PQ345093 | Present study |
| *Amazona amazonica* | NC-BR1 | Colombia, Cesar, AguachicaLat: 8.3333301544Lon: -73.5833282471 | ICN:21275 | PQ345094 | Present study |
| *Amazona amazonica* | NC-BR1 | Colombia, Meta, Villavicencio, PeralonsoLat: 4.09311Lon: -73.35561 | ICN:10700 | PQ345095 | Present study |
| *Amazona amazonica* | NC-BR4 | Colombia, Meta, Vista HermosaLat: 2.58541Lon: -73.4847 | ICN:10704 | PQ345096 | Present study |
| *Amazona amazonica* | NC-BR5 | Colombia, Meta, Villavicencio, PeralonsoLat: 4.09311Lon: -73.35561 | ICN:10701 | PQ345097 | Present study |
| *Amazona amazonica* | NC-BR1 | Colombia, Meta, Villavicencio, Caño Negro | ICN:10705 | PQ345098 | Present study |
| *Amazona amazonica* | NC-BR6 | Colombia, Vichada, CumariboLat: 4.12544Lon: -73.43013 | ICN:22068 | PQ345099 | Present study |
| *Amazona amazonica* | OLAM1 | Colombia, Casanare, Yopal Lat: 5.332153967537313Lon: -72.3654231222315 | Aa37 | PQ345100 | Present study |
| *Amazona amazonica* | NC-BR7 | Colombia, Casanare, Yopal Lat: 5.332153967537313Lon: -72.3654231222315 | Aa38 | PQ345101 | Present study |
| *Amazona amazonica* | NC-BR8 | Colombia, Casanare, Yopal Lat: 5.332153967537313Lon: -72.3654231222315 | Aa39 | PQ345102 | Present study |
| *Amazona amazonica* | NC-BR5 | Colombia, NeivaLat: 2.972437153069322Lon: -75.2540990664602 | Aa40 | PQ345103 | Present study |
| *Amazona amazonica* | NC-BR9 | Colombia, Caquetá, SolanoLat: 0.71666Lon: -75.26667 | ICN:10703 | PQ345104 | Present study |
| *Amazona amazonica* | NC-BR1 | Colombia, San José del GuaviareLat: 2.5666699410Lon: -72.6333313000 | ICN:17649 | PQ345105 | Present study |
| *Amazona amazonica* | NC-BR10 | Colombia, San José del GuaviareLat: 2.5666699410Lon: -72.6333313000 | ICN:17650 | PQ345106 | Present study |
| *Amazona amazonica* | OLAM1 | Colombia, Puerto SantanderLat: -0.6333299875Lon: -72.2500000000 | ICN:24483 | PQ345107 | Present study |
| *Amazona amazonica* | NC-BR1 | Guyana | USNM: Birds:622357 | JQ173995 | Schindel et al. 2011 |
| *Amazona amazonica* | NC-BR1 | Brazil, Para, Jacareacanga | LGEMA:7301 | NPARR011-07  | São Paulo University, Botanical Department |
| *Amazona amazonica* | NC-BR11 | Brazil, Para, Jacareacanga | LGEMA:7302 | NPARR012-07 | São Paulo University, Botanical Department |
| *Amazona amazonica* | NC-BR1 | Brazil, Bahia | LGEMA:5863 | NPARR316-08 | São Paulo University, Botanical Department |
| *Amazona amazonica* | NC-BR12 | Seized. Precise origin cannot be inferred | 13788 | PQ345108 | Present study |
| *Amazona amazónica\** | NC-BR17 | Seized. Precise origin cannot be inferred | Asp12  | PQ345109 | Present study |
| *Amazona amazonica* | NC-BR1 | Seized. Precise origin cannot be inferred | Aa1 | PQ345110 | Present study |
| *Amazona amazonica* | UNK-1 | Seized. Precise origin cannot be inferred | Aa2 | PQ345111 | Present study |
| *Amazona amazonica* | UNK-2 | Seized. Precise origin cannot be inferred | Aa3 | PQ345112 | Present study |
| *Amazona amazonica* | NC-BR1 | Seized. Precise origin cannot be inferred | UNAL: BTBC:13160 | PQ345113 | Present study |
| *Amazona amazonica* | NC-BR14 | Seized. Precise origin cannot be inferred | UNAL: BTBC:13466 | PQ345114 | Present study |
| *Amazona amazonica* | NC-BR13 | Seized. Precise origin cannot be inferred | UNAL: BTBC:13691 | PQ345115 | Present study |
| *Amazona amazonica* | NC-BR1 | Seized. Precise origin cannot be inferred | UNAL: BTBC:13852 | PQ345116 | Present study |
| *Amazona amazonica* | NC-BR8 | Seized. Precise origin cannot be inferred | CAR:2201 | PQ345117 | Present study |
| *Amazona amazonica* | UNK-5 | Seized. Precise origin cannot be inferred | CAR:4493 | PQ345118 | Present study |
| *Amazona amazonica* | NC-BR1 | Seized. Precise origin cannot be inferred | CAR:2894 | PQ345119 | Present study |
| *Amazona amazonica* | UNK-5 | Seized. Precise origin cannot be inferred | CAR:4506 | PQ345120 | Present study |
| *Amazona amazonica* | NC-BR1 | Seized. Precise origin cannot be inferred | CAR:4486 | PQ345121 | Present study |
| *Amazona amazonica* | UNK-5 | Seized. Precise origin cannot be inferred | CAR:2749 | PQ345122 | Present study |
| *Amazona amazonica* | NC-BR15 | Seized. Precise origin cannot be inferred | CAR:2121 | PQ345123 | Present study |
| *Amazona amazonica* | UNK-4 | Seized. Precise origin cannot be inferred | CAR:4660 | PQ345124 | Present study |
| *Amazona amazonica* | UNK-1 | Seized. Precise origin cannot be inferred | CAR:2397 | PQ345125 | Present study |
| *Amazona amazonica* | UNK-1 | Seized. Precise origin cannot be inferred | CAR:1553 | PQ345126 | Present study |
| *Amazona amazonica* | OLAM2 | Seized. Assigned to the Orinoco llanos-Amazonia in Colombia | GES00743 | PQ345127 | Present study |
| *Amazona amazonica* | UNK-1 | Seized. Precise origin cannot be inferred | GES00742 | PQ345128 | Present study |
| *Amazona amazonica* | NC-BR1 | Seized. Precise origin cannot be inferred | GES00697 | PQ345129 | Present study |
| *Amazona amazonica* | UNK-3 | Seized. Precise origin cannot be inferred | Aa23 | PQ345130 | Present study |
| *Amazona amazonica* | NC-BR11 | Seized. Precise origin cannot be inferred | Aa24 | PQ345131 | Present study |
| *Amazona amazonica* | UNK-1 | Seized. Precise origin cannot be inferred | Aa25 | PQ345132 | Present study |
| *Amazona amazonica* | NC-BR16 | Seized. Precise origin cannot be inferred | Aa26 | PQ345133 | Present study |
| *Amazona farinosa*  | CIA-E-1 | Guyana: Northwest District | USNM: Birds:621394 | JQ174002 | Schindel et al. 2011 |
| *Amazona farinosa*  | CIA-E-1 | Guyana: Berbice | USNM: Birds:610150 | JQ174001 | Schindel et al. 2011 |
| *Amazona farinosa*  | CIA-E-2 | Guyana: Northwest District | USNM: Birds:586309 | JQ174000 | Schindel et al. 2011 |
| *Amazona farinosa*  | TRA-2 | Panama, Darien | STRIBC:386 |  BSPBB485-12 | STRI |
| *Amazona farinosa*  | TRA-1 | Panama, Darien | STRIBC:4009 | BSPBB486-12 | STRI |
| *Amazona farinosa*  | TRA-1 | Colombia, Sucre | IAvH:15130 | IAVHB185-13 | IAvH |
| *Amazona farinosa*  | TRA-3 | Colombia, Choco, Unguia | IAvH: A:3001 | IAVHB245-14 | IAvH  |
| *Amazona farinosa*  | TRA-3 | Colombia, Choco, Acandi | IAvH: A:3028 | IAVHB246-14 | IAvH |
| *Amazona farinosa*  | TRA-1 | Colombia, Córdoba, MontelíbanoLat: 8.0000000000Lon: -75.8166732788 | ICN:10663 | PQ345134 | Present study |
| *Amazona farinosa*  | TRA-1 | Colombia, Antioquia, RemediosLat: 7.0213093575211465Lon: -74.69475619854809 | CSJ: a:3041 | PQ345135 | Present study |
| *Amazona farinosa*  | TRA-1 | Colombia, Santander; BarrancabermejaLat: 7.1666698460Lon: -73.9166717500 | ICN:10653 | PQ345136 | Present study |
| *Amazona farinosa*  | TRA-4 | Colombia, Santander; BarrancabermejaLat: 7.1666698460Lon: -73.9166717500 | ICN:10654 | PQ345137 | Present study |
| *Amazona farinosa*  | TRA-1 | Colombia, Santander; BarrancabermejaLat: 7.1666698460Lon: -73.9166717500 | ICN:10656 | PQ345138 | Present study |
| *Amazona farinosa*  | TRA-1 | Colombia, Santander; BarrancabermejaLat: 7.1666698460Lon: -73.9166717500 | ICN:10657 | PQ345139 | Present study |
| *Amazona farinosa*  | TRA-1 | Colombia, Santander, Puerto ParraLat: 6.6333298680Lon: -73.9166717500 | ICN:18076 | PQ345140 | Present study |
| *Amazona farinosa*  | TRA-5 | Colombia, Santander; BarrancabermejaLat: 7.1666698460Lon: -73.9166717500 | ICN:10652 | PQ345141 | Present study |
| *Amazona farinosa*  | TRA-6 | Colombia, Cundinamarca, Puerto SalgarLat: 5.668136Lon: -74.61664 | ICN:18267 | PQ345142 | Present study |
| *Amazona farinosa*  | TRA-1 | Colombia, Cauca, GuapiLat: 2.5999999046Lon: -77.9000015259 | ICN:10659 | PQ345143 | Present study |
| *Amazona farinosa*  | TRA-1 | Colombia, Cauca, GuapiLat: 2.5999999046Lon: -77.9000015259 | Afa28 | PQ345144 | Present study |
| *Amazona farinosa*  | TRA-1 | Colombia, Cauca, GuapiLat: 2.5999999046Lon: -77.9000015259 | Afa29 | PQ345145 | Present study |
| *Amazona farinosa*  | CIA-W-1 | Colombia, Caqueta, SolanoLat: 0.7166600227Lon: -75.2666702271 | ICN:14990 | PQ345146 | Present study |
| *Amazona farinosa*  | CIA-W-1 | Colombia, Guaviare, San José del GuaviareLat: 2.5666699410Lon: -726333313000 | ICN:17651 | PQ345147 | Present study |
| *Amazona farinosa*  | CIA-W-1 | Colombia, Vaupes, CaruruLat: 1.128 Lon: -71.572 | IAvH: A:1285 | IAVHB243-14 | IAvH |
| *Amazona farinosa*  | CIA-W-1 | Colombia, Caquetá, SolanoLat: 0.217 Lon: -71.583  | IAvH:11614 | IAVHB007-13 | IAvH |
| *Amazona farinosa*  | CIA-W-1 | Colombia, Guaviare, San José del GuaviareLat: 2.5666699410Lon: -726333313000 | P3 | PQ345148 | Present study |
| *Amazona farinosa*  | CIA-W-1 | Colombia, Guaviare, San José del GuaviareLat: 2.5666699410Lon: -726333313000 | P17 | PQ345149 | Present study |
| *Amazona farinosa*  | TRA-7 | Colombia, Cauca, GuapiLat: 2.5999999046Lon: -77.9000015259 | ICN:10658 | PQ345150 | Present study |
| *Amazona farinosa*  | TRA-1 | SeizedAssigned to the Trans Andean region of Colombia  | Afa1 | PQ345151 | Present study |
| *Amazona farinosa*  | CIA-W-1 | Seized | Afa2 | PQ345152 | Present study |
| *Amazona farinosa*  | TRA-1 | SeizedAssigned to the Trans Andean region of Colombia  | Afa3 | PQ345153 | Present study |
| *Amazona farinosa*  | TRA-9 | SeizedAssigned to the Trans Andean region of Colombia  | Afa4 | PQ345154 | Present study |
| *Amazona farinosa*  | TRA-6 | SeizedAssigned to the Trans Andean region of Colombia  | GES01110 | PQ345155 | Present study |
| *Amazona farinosa*  | CIA-W-1 | SeizedAssigned to the Cis Andean region of Colombia  | GES01109 | PQ345156 | Present study |
| *Amazona farinosa*  | TRA-1 | SeizedAssigned to the Trans Andean region of Colombia  | Afa9 | PQ345157 | Present study |
| *Amazona farinosa*  | CIA-W-2 | SeizedAssigned to the Cis Andean region of Colombia  | Afa10 | PQ345158 | Present study |
| *Amazona farinosa*  | CIA-W-1 | SeizedAssigned to the Cis Andean region of Colombia  | Afa11 | PQ345159 | Present study |
| *Amazona farinosa*  | CIA-W-1 | SeizedAssigned to the Cis Andean region of Colombia  | Afa12 | PQ345160 | Present study |
| *Amazona farinosa*  | CIA-W-3 | SeizedAssigned to the Cis Andean region of Colombia  | Afa13 | PQ345161 | Present study |
| *Amazona farinosa*  | TRA-8 | SeizedAssigned to the Trans Andean region of Colombia  | Afa14 | PQ345162 | Present study |
| *Amazona farinosa*  | TRA-1 | SeizedAssigned to the Trans Andean region of Colombia  | Afa15 | PQ345163 | Present study |
| *Amazona farinosa*  | TRA-1 | SeizedAssigned to the Trans Andean region of Colombia  | Afa16 | PQ345164 | Present study |
| *Amazona farinosa*  | TRA-1 | SeizedAssigned to the Trans Andean region of Colombia  | Afa17 | PQ345165 | Present study |
| *Amazona farinosa*  | TRA-10 | SeizedAssigned to the Trans Andean region of Colombia  | CEA:169 | PQ345166 | Present study |
| *Amazona farinosa*  | CIA-W-1 | SeizedAssigned to the Cis Andean region of Colombia  | CEA:408 | PQ345167 | Present study |
| *Amazona farinosa*  | CIA-W-1 | SeizedAssigned to the Cis Andean region of Colombia  | CEA:302 | PQ345168 | Present study |
| *Amazona farinosa*  | CIA-W-1 | SeizedAssigned to the Cis Andean region of Colombia  | URRAS-67 | PQ345169 | Present study |
| *Amazona farinosa*  | CIA-W-1 | SeizedAssigned to the Cis Andean region of Colombia  | URRAS-76 | PQ345170 | Present study |
| *Amazona barbadensis* | NV-1 | North of Venezuela | POTNW101 | JX524615 |  Urantowka et al. 2013 |
| *Amazona auropalliata*  | CAM-1 |  |  | NC063712 | NFPC |
| *Amazona auropalliata*  | CAM-1 |  |  | MW151697 | NFPC |
| *Amazona aestiva* | S1-2 | Argentina | MACN-Or-ct 3075 | FJ027054 | Kerr et al. 2009 |
| *Amazona aestiva* | S1-1 | Argentina | MACN-Or-ct 3060 |  FJ027053 | Kerr et al. 2009 |
| *Amazona aestiva* | S2-1 | Argentina: Corrientes | MACN-Or-ct 2370 | FJ027055 | Kerr et al. 2009 |
| *Amazona aestiva* | S2-2 | Brazil |  | KT361659 |  Lima et al. 2018 |
| *Amazona aestiva* | S1-2 | Brazil | AFB-HARI | KR017984 | Gilbert,K. 2015 |
| *Amazona aestiva* | S2-3 | Brazil |  | KF771235 | Carvalho. 2014 |
| *Amazona aestiva* | S1-4 | Brazil | fvv343  | JX476324 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S1-5 | Brazil | 4162 | JX476307 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S1-5 | Brazil | fvv161 | JX476317 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-2 | Brazil | fvv553 | JX476326 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-4 | Brazil | fvv192  | JX476319 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-5 | Brazil | fvv332  | JX476322 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | 4056  | JX476306 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | CBT31100002  | JX476308 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | conmg427  | JX476309 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | CONSER005  | JX476311 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv039  | X476312 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv049  | JX476313 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv066  | JX476314 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv074  | JX476315 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv078  | JX476316 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv190  | JX476318 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv267  | JX476320 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv276  | JX476321 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv339  | JX476323 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv385 | JX476325 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv558  | JX476328 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv573  | JX476329 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv588  | JX476330 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv589  | JX476331 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv597  | JX476332 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvvmg032  | JX476333 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvvmg059  | JX476334 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvvmg95153  | JX476335 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvvmg95168  | JX476336 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvvmg95198  | JX476338 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | 4045 | JX476339 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv279  | JX476340 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvv576  | JX476341 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | L588:2  | JX476342 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvvmg95154  | JX476343 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-1 | Brazil | fvvr97  | JX476344 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-6 | Brazil | fvvmg95169  | JX476337 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-7 | Brazil | fvv557  | JX476327 | Ribas, Tavares, et al. 2007 |
| *Amazona aestiva* | S2-8 | Brazil | CONSER004  | JX476310 | Ribas, Tavares, et al. 2007 |
| *Amazona ochrocephala* | S1-6 | Brazil |  | KM611467 | Eberhard y Wright 2016 |
| *Amazona ochrocephala* | S1-3 | Brazil: Para | USNM: Birds:541328 | JQ174006 | Schindel et al. 2011 |
| *Amazona ochrocephala* | S1-2 | Brazil: Para | USNM: Birds:572511 | JQ174005 | Schindel et al. 2011 |
| *Amazona ochrocephala* | AV-1 | Colombia, Cundinamarca, Quetame | IAvH: A:6492 | IAVHB251-14 | IAvH |
| *Amazona ochrocephala* | AV-1 | Colombia, Antioquia, RemediosLat: 7.021079331683414Lon: -74.69450944778997 | ITM:1485 | PQ345171 | Present study |
| *Amazona ochrocephala* | AV-2 | Colombia, Caldas, La doradaLat: 5.5166702271Lon: -74.7333297729 | ICN:23209 | PQ345172 | Present study |
| *Amazona ochrocephala* | AV-1 | Colombia, Bolívar, San FernandoLat: 9.0833301544Lon: -74.3333282471 | ICN:30722 | PQ345173 | Present study |
| *Amazona ochrocephala* | AV-1 | Colombia, Antioquia, MedellínLat: 6.221070381734521 Lon: -75.67119908777403 | ITM:2715 | PQ345174 | Present study |
| *Amazona ochrocephala* | AV-3 | Colombia, Antioquia, RemediosLat: 7.021079331683414Lon: -74.69450944778997 | CSJ-a 3056 | PQ345175 | Present study |
| *Amazona ochrocephala* | NW-1 | Colombia, Antioquia, TurboLat: 8.1000003815Lon: -76.7166671753 | ICN:10666 | PQ345176 | Present study |
| *Amazona ochrocephala* | NW-2 | Panama, Cocle, Anton | PA-AOC591 | BSPBA298-07  | STRI |
| *Amazona ochrocephala* | NW-3 | Colombia, Antioquia, TurboLat: 8.1000003815Lon: -76.7166671753 | ICN:10668 | PQ345177 | Present study |
| *Amazona ochrocephala* | NW-2 | Colombia, Atlántico, Ponedera Lat: 10.5000000000Lon: -74.8166732788 | ICN:10670 | PQ345178 | Present study |
| *Amazona ochrocephala* | NW-5 | Colombia, Antioquia, TurboLat: 8.1000003815Lon: -76.7166671753 | ICN:10665 | PQ345179 | Present study |
| *Amazona ochrocephala* | OL-E-1 | Guyana | USNM: Birds:626049 | JQ174004 | Schindel et al. 2011 |
| *Amazona ochrocephala* | OL-E-2 | Colombia, Guaviare, San José del GuaviareLat: 2.5666699410Lon: -726333313000 | ICN:17652 | PQ345180 | Present study |
| *Amazona ochrocephala* | OL-E-3 | Colombia, Meta, Vista HermosaLat: 2.58541Lon: -73.4847 | ICN:10672 | PQ345181 | Present study |
| *Amazona ochrocephala* | OL-E-3 | Colombia, Meta, Vista HermosaLat: 2.58541Lon: -73.4847 | ICN:10675 | PQ345182 | Present study |
| *Amazona ochrocephala* | OL-W-1 | Colombia, Caquetá, SolanoLat: 0.71666Lon: -75.26667 | ICN: 10676 | PQ345183 | Present study |
| *Amazona ochrocephala* | OL-W-2 | Colombia, Amazonas, Puerto NariñoLat: -3.8329999447Lon: -70.4499969482 | ICN:22618 | PQ345184 | Present study |
| *Amazona ochrocephala* | OL-W-3 | Colombia, Meta, Vista HermosaLat: 2.58541Lon: -73.4847 | ICN:10674 | PQ345185 | Present study |
| *Amazona ochrocephala* | OL-W-2 | Colombia, Meta, Vista HermosaLat: 2.58541Lon: -73.4847 | ICN:10673 | PQ345186 | Present study |
| *Amazona ochrocephala\** | OL-E-4 | SeizedAssigned to the Orinoco Llanos east Colombia  | Asp1 | PQ345187 | Present study |
| *Amazona ochrocephala\** | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | Asp2 | PQ345188 | Present study |
| *Amazona ochrocephala\** | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | Asp3 | PQ345189 | Present study |
| *Amazona ochrocephala\** | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | Asp4 | PQ345190 | Present study |
| *Amazona ochrocephala\** | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | Asp5 | PQ345191 | Present study |
| *Amazona ochrocephala\** | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | Asp6 | PQ345192 | Present study |
| *Amazona ochrocephala\** | OL-W-2 | SeizedAssigned to the Orinoco Llanos west Colombia  | Asp7 | PQ345193 | Present study |
| *Amazona ochrocephala\** | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | Asp8 | PQ345194 | Present study |
| *Amazona ochrocephala\** | OL-E-5 | SeizedAssigned to the Orinoco Llanos east Colombia  | Asp9 | PQ345195 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | 13818 | PQ345196 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | Aoc1 | PQ345197 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | Aoc2 | PQ345198 | Present study |
| *Amazona ochrocephala* | AV-4 | SeizedAssigned to Middle Magdalena Andean valley | Aoc4 | PQ345199 | Present study |
| *Amazona ochrocephala* | OL-W-4 | SeizedAssigned to the Orinoco Llanos west Colombia  | Aoc5 | PQ345200 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | UNAL: BTBC:10940 | PQ345201 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | UNAL: BTBC:6015 | PQ345202 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | UNAL: BTBC:10970 | PQ345203 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | UNAL: BTBC:13117 | PQ345204 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | UNAL: BTBC:13118 | PQ345205 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | UNAL: BTBC:9581 | PQ345206 | Present study |
| *Amazona ochrocephala* | NW-2 | Seized | CAR:2261 | PQ345207 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:4494 | PQ345208 | Present study |
| *Amazona ochrocephala* | NW-2 | SeizedAssigned to Northwest Colombia | CAR:4481 | PQ345209 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:4477 | PQ345210 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | CAR:2138 | PQ345211 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | CAR:2130 | PQ345212 | Present study |
| *Amazona ochrocephala* | OL-E-6 | SeizedAssigned to the Orinoco Llanos east Colombia  | CAR:2554 | PQ345213 | Present study |
| *Amazona ochrocephala* | OL-E-7 | SeizedAssigned to the Orinoco Llanos east Colombia  | CAR:2656 | PQ345214 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2897 | PQ345215 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2555 | PQ345216 | Present study |
| *Amazona ochrocephala* | AV-5 | SeizedAssigned to Middle Magdalena Andean valley | CAR:4769 | PQ345217 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2479 | PQ345218 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2537 | PQ345219 | Present study |
| *Amazona ochrocephala* | AV-6 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2449 | PQ345220 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:4502 | PQ345221 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | CAR:46601 | PQ345222 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:4700 | PQ345223 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2707 | PQ345224 | Present study |
| *Amazona ochrocephala* | OL-E-8 | SeizedAssigned to the Orinoco Llanos east Colombia  | CAR:2075 | PQ345225 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2125 | PQ345226 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2548 | PQ345227 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2711 | PQ345228 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | CAR:2476 | PQ345229 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2055 | PQ345230 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:1276 | PQ345231 | Present study |
| *Amazona ochrocephala* | OL-W-2 | SeizedAssigned to the Orinoco Llanos west Colombia  | CAR:2396 | PQ345232 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2328 | PQ345233 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2522 | PQ345234 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2523 | PQ345235 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:1036 | PQ345236 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:1278 | PQ345237 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:2803 | PQ345238 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CAR:1450 | PQ345239 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | GES00713 | PQ345240 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | Aoc46 | PQ345241 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | Aoc47 | PQ345242 | Present study |
| *Amazona ochrocephala* | NW-2 | SeizedAssigned to Northwest Colombia | Aoc48 | PQ345243 | Present study |
| *Amazona ochrocephala* | AV-7 | SeizedAssigned to Middle Magdalena Andean valley | Aoc49 | PQ345244 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | Aoc50 | PQ345245 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | CEA:183 | PQ345246 | Present study |
| *Amazona ochrocephala* | NW-5 | SeizedAssigned to Northwest Colombia | CEA:308 | PQ345247 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 26119 | PQ345248 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 02703 | PQ345249 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 93557 | PQ345250 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 93281 | PQ345251 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | 96066 | PQ345252 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | 95149 | PQ345253 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 26427 | PQ345254 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | 00249 | PQ345255 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 22575 | PQ345256 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 22454 | PQ345257 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 24737 | PQ345258 | Present study |
| *Amazona ochrocephala* | OL-W-4 | SeizedAssigned to the Orinoco Llanos west Colombia  | 28175 | PQ345259 | Present study |
| *Amazona ochrocephala* | OL-E-9 | SeizedAssigned to the Orinoco Llanos east Colombia  | 22819 | PQ345260 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | 95616 | PQ345261 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 94292 | PQ345262 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 22577 | PQ345263 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 95165 | PQ345264 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 22883 | PQ345265 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 22576 | PQ345266 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | 99767 | PQ345267 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 95299 | PQ345268 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 67634 | PQ345269 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 22133 | PQ345270 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 26919 | PQ345271 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 31332 | PQ345272 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 95062 | PQ345273 | Present study |
| *Amazona ochrocephala* | NW-2 | SeizedAssigned to Northwest Colombia | 01259 | PQ345274 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 00811 | PQ345275 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 25111 | PQ345276 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 22171 | PQ345277 | Present study |
| *Amazona ochrocephala* | OL-E-9 | SeizedAssigned to the Orinoco Llanos east Colombia  | 22597 | PQ345278 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 95042 | PQ345279 | Present study |
| *Amazona ochrocephala* | OL-E-3 | SeizedAssigned to the Orinoco Llanos east Colombia  | 22367 | PQ345280 | Present study |
| *Amazona ochrocephala* | AV-1 | SeizedAssigned to Middle Magdalena Andean valley | 21993 | PQ345281 | Present study |
| *Amazona autumnalis*  | N-W-1 | Colombia, Antioquia, RemediosLat: 7.021079331683414Lon: -74.69450944778997 | CSJ-a 3235 | PQ345282 | Present study |
| *Amazona autumnalis*  | N-W-2 | Colombia, Cauca, GuapiLat: 2.5786321130533367Lon:-77.86634764599303 | Aau17 | PQ345283 | Present study |
| *Amazona autumnalis*  | N-W-2 | Colombia, Cauca, GuapiLat: 2.5786321130533367Lon:-77.86634764599303 | Aau18 | PQ345284 | Present study |
| *Amazona autumnalis*  | N-W-2 | Colombia, Choco, RiosucioLat: 7.844Lon: -77.134  | IAvH: A:4174 |  IAVHB242-14  | IAvH  |
| *Amazona autumnalis*  | N-W-3 | Colombia, Córdoba, MonteríaLat: 8.713388610393318Lon: -75.86228129469634 | Monteria 2 | PQ345285 | Present study |
| *Amazona autumnalis*  | N-W-2 | Colombia, Córdoba, MonteríaLat: 8.713388610393318Lon: -75.86228129469634 | Monteria 3 | PQ345286 | Present study |
| *Amazona autumnalis*  | N-W-2 | Panama, Bocas Del ToroLat: 9.233Lon: -82.267 | B06446 | USNMC042-10 | NMNH |
| *Amazona autumnalis*  | N-W-2 | Panama, Bocas Del ToroLat: 9.233Lon: -82.267 | USNM: Birds:612297 | JQ173996 | Schindel et al. 2011 |
| *Amazona autumnalis*  | N-W-2 | Panama, Bocas Del ToroLat: 9.233Lon: -82.267 | USNM: Birds:B06446 |  JQ173997 | Schindel et al. 2011 |
| *Amazona autumnalis*  | N-W-2 | Panama, DarienLat: 8.361Lon: -77.949b  | STRIBC-2897 | BSPBB425-12 | NMNH |
| *Amazona autumnalis*  | N-W-2 | Colombia, Cauca, GuapiLat: 2.5786321130533367Lon:-77.86634764599303 | P11 | PQ345287 | Present study |
| *Amazona autumnalis*  | N-W-2 | Colombia, Cauca, GuapiLat: 2.5786321130533367Lon:-77.86634764599303 | P12 | PQ345288 | Present study |
| *Amazona autumnalis*  | N-W-2 | Colombia, Cauca, GuapiLat: 2.5786321130533367Lon:-77.86634764599303 | P13 | PQ345289 | Present study |
| *Amazona autumnalis*  | N-W-2 | Colombia, Cauca, GuapiLat: 2.5786321130533367Lon:-77.86634764599303 | P14 | PQ345290 | Present study |
| *Amazona autumnalis*  | N-W-2 | SeizedAssigned to Northwest Colombia | Aau1 | PQ345291 | Present study |
| *Amazona autumnalis*  | N-W-2 | SeizedAssigned to Northwest Colombia | Aau2 | PQ345292 | Present study |
| *Amazona autumnalis*  | N-W-2 | SeizedAssigned to Northwest Colombia | UNAL: BTBC:12201 | PQ345293 | Present study |
| *Amazona autumnalis*  | N-W-2 | SeizedAssigned to Northwest Colombia | GES01108 | PQ345294 | Present study |
| *Amazona autumnalis*  | N-W-2 | SeizedAssigned to Northwest Colombia | GES01107 | PQ345295 | Present study |
| *Amazona autumnalis*  | N-W-4 | SeizedAssigned to Northwest Colombia | GES011717 | PQ345296 | Present study |
| *Amazona autumnalis*  | N-W-2 | SeizedAssigned to Northwest Colombia | 29 | PQ345297 | Present study |
| *Amazona autumnalis*  | N-W-2 | SeizedAssigned to Northwest Colombia | 7 | PQ345298 | Present study |
| *Amazona autumnalis*  | N-W-2 | SeizedAssigned to Northwest Colombia | 19 | PQ345299 | Present study |
| *Amazona autumnalis*  | N-W-2 | SeizedAssigned to Northwest Colombia | 22 | PQ345300 | Present study |
| *Amazona autumnalis*  | N-W-2 | SeizedAssigned to Northwest Colombia | 20 | PQ345301 | Present study |
| *Amazona autumnalis*  | N-W-2 | SeizedAssigned to Northwest Colombia | 18 | PQ345302 | Present study |
| *Amazona autumnalis*  | N-W-2 | SeizedAssigned to Northwest Colombia | Aau15 | PQ345303 | Present study |
| *Amazona festiva* | MR-1 | Colombia, Casanare, Hato CorozalLat : 6.15221572153723, Lon:- 71.76613657012047 | ICN:24257 | PQ345304 | Present study |
| *Amazona festiva* | MR-2 | Colombia, Arauca, AraucaLat: 7.087Lon: -70.759  | IAvH-A-3214 |  IAVHB247-14 | IAvH  |
| *Amazona festiva* | CR-AR-1 | Brazil, Para, Rio Busutuba, Ilha Caviana | LGEMA-5249 | NPARR311-08 | SUBD |
| *Amazona festiva* | CR-AR-1 |  Colombia, Caquetá, SolanoLat: -0.599Lon: -72.407  | IAvH-A-7480 | IAVHB248-14 | IAvH  |
| *Amazona festiva* | MR-4 | Seized Assigned to Meta River | UNAL: BTBC:13613 | PQ345305 | Present study |
| *Amazona festiva* | MR-1 | Seized Assigned to Meta River | ICN:27328 | PQ345306 | Present study |
| *Amazona Mercenaria* | CA | Colombia, Tolima, PlanadasLat: 3.112672655448967Lon: -75.62400466119675 | ICN:10696 | PQ345307 | Present study |
| *Amazona Mercenaria* | SNSM | Colombia, Magdalena, Sierra Nevada de SantamartaLat: 10.900000Lon: -74.040000 | ICN:23248 | PQ345308 | Present study |
| *Amazona Mercenaria* | SNSM | Colombia, Magdalena, Sierra Nevada de SantamartaLat: 1.112 Lon: -74.04  | IAvH: A:440 | IAVHB249-14 | IAvH  |

**Table S3.** Genetic distance between the six Amazon parrot species

|  |  |  |  |
| --- | --- | --- | --- |
| Species 1 | Species 2 | Dist | Std. Err |
| *A. amazonica* | *A. autumnalis* | 0.052 | 0.009 |
| *A. amazonica* | *A. farinosa* | 0.052 | 0.008 |
| *A. amazonica* | *A. festiva* | 0.055 | 0.009 |
| *A. amazonica* | *A. mercenarius* | 0.045 | 0.008 |
| *A. amazonica* | *A. ochrocephala* Species Complex | 0.059 | 0.009 |
| *A. autumnalis* | *A. farinosa* | 0.051 | 0.009 |
| *A. autumnalis* | *A. festiva* | 0.062 | 0.009 |
| *A. autumnalis* | *A. mercenarius* | 0.047 | 0.009 |
| *A. autumnalis* | *A. ochrocephala* Species Complex | 0.057 | 0.009 |
| *A. farinosa* | *A. festiva* | 0.060 | 0.009 |
| *A. farinosa* | *A. mercenarius* | 0.035 | 0.007 |
| *A. farinosa* | *A. ochrocephala* Species Complex | 0.054 | 0.009 |
| *A. festiva* | *A. mercenarius* | 0.059 | 0.009 |
| *A. festiva* | *A. ochrocephala* Species Complex | 0.064 | 0.009 |
| *A. mercenarius* | *A. ochrocephala* Species Complex | 0.041 | 0.007 |