

CATALOGUE OF THE BIRDS OF COSTA RICA, INDICATING THOSE SPECIES OF WHICH THE UNITED STATES NATIONAL MUSEUM POSSESSES SPECIMENS FROM THAT COUNTRY.

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PREFACE.

During a short residence in Washington, I have thought it advisable to avail myself of the excellent facilities afforded by the extensive ornithological collections of the United States National Museum, under the Smithsonian Institution, for the preparation of the present catalogue of the birds of Costa Rica, my native country, with a view to correct the several errors contained in a former one which I published at San José, in the Spanish language, in June, 1882, and to add all of the new species described since then, chiefly by Mr. Robert Ridgway, besides several species of adjoining countries which have recently been obtained within our limits by myself and others. It is intended as a preliminary publication of a work of a more extensive nature, on the same subject, which I have in contemplation, embracing descriptions of genera and species, besides notes on habits and geographical distribution.

The descriptions of *Vircolanius verticalis*, *Cyanocorax cucullatus*, and *Canceroma zeledoni* form the subject of special papers to be soon published by Mr. Robert Ridgway, curator of the department of birds of the United States National Museum. To this gentleman I feel under deep obligations for his very kind assistance in the preparation of this publication.

I have made use of some of the many important changes of nomenclature, published as well as unpublished, which we owe to the labors of the active investigator, Mr. Leonhard Stejneger.

On this, as on former occasions, Professor Baird, Secretary of the Smithsonian Institution, has kindly granted me the most free access to the collections. It gives me particular pleasure to acknowledge this fact, and to thank him very cordially.

J. C. Z.

[Species represented in the United States National Museum by Costa Rica specimens are marked with an asterisk (*).]

ORDER PASSERES.

(OSCINES.)

Family TURDIDÆ.

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| + *1. <i>Catharus melpomene</i> (Cab.) | — *5. <i>Catharus fuscator</i> (Lafr.) |
| *2. <i>Catharus frantzii</i> Cab. | — 6. <i>Hylocichla mustelina</i> (Gm.) |
| *3. <i>Catharus gracilirostris</i> Salv. | — 7. <i>Hylocichla fuscescens</i> (Steph.) |
| *4. <i>Catharus mexicanus</i> (Bonap.) | — *8. <i>Hylocichla aliciae</i> (Baird). |
| | — *9. <i>Hylocichla swainsoni</i> (Cab.) |
| | — 10. <i>Hylocichla ustulata</i> (Nutt.) |

- *11. *Turdus grayi* Bonap.
- *12. *Turdus lebeius* Cab.
- *13. *Turdus nigrescens* Cab.
- *14. *Turdus obsoletus* Lawr.
- *15. *Turdus tristis* (Sw.)
- 16. *Turdus infuscatus* (Lafr.)
- *17. *Myadestes melanops* Salr.

Family MIMIDÆ.

- 18. *Minus gilvus* (Vieill.)
- *19. *Galeoscoptes carolinensis* (Linn.)

Family CINCLIDÆ.

- +*20. *Cinclus ardesiacus* Salv.

Family SYLVIIDÆ.

- +*21. *Poliophtila bilineata* (Bonap.)

Family TROGLODYTIDÆ.

- 22. *Rhodinocichla rosea* (Less.)
- +*23. *Campylorhynchus capistratus* (Less.)
- +*24. *Campylorhynchus zonatus* (Less.)
- +*25. *Cyphorinus lawrenci* ScL.
- +*26. *Microcerculus lusciniæ* Salv.
- +*27. *Henicorhina leucosticta* (Cab.)
- +*28. *Henicorhina leucophrys* (Tschudi).
- + 29. *Thryophilus pleurostictus* (ScL.)
- +*30. *Thryophilus rufalbus* (Lafr.)
- +*31. *Thryophilus costaricensis* Sharpe.
- +*32. *Thryophilus thoracicus* (Salv.)
- +*33. *Thryophilus modestus* (Cab.)
- +*34. *Thryophilus semibadius* (Salv.)
- +*35. *Thryophilus zeledoni* Lawr.
- +*36. *Thryothorus hyperythrus* Salv. & God.
- +*37. *Thryothorus fasciiventris* Lafr.
- +*38. *Thryothorus atrogularis* Salr.
- 39. *Thryothorus maculipectus* Lafr.
- +*40. *Troglodytes intermedius* Cab.
- +*41. *Troglodytes ochraceus* Ridgway.
- +*42. *Cistothorus polyglottus* (Vieill.)

Family MNIOTILTIDÆ.

- +*43. *Mniotilta varia* (Linn.)
- +*44. *Parula inornata* Baird.
- +*45. *Oreothlypis gutturalis* (Cab.)
- +*46. *Protonotaria citrea* (Bodd.)
- +*47. *Helminthophila peregrina* (Wils.)

- +*48. *Helminthophila chrysoptera* (Linn.)
- +*49. *Helminthophila vermivorus* (Gm.)
- +*50. *Dendroica virens* (Gm.)
- + 51. *Dendroica coronata* (Linn.)
- +*52. *Dendroica blackburniæ* (Gm.)
- + 53. *Dendroica pennsylvanica* (Linn.)
- +*54. *Dendroica æstiva* (Gm.)
- +*55. *Dendroica panamensis* Sund.
- + 56. *Dendroica castanea* (Wils.)
- + 57. *Dendroica cærulea* (Wils.)
- + 58. *Dendroica maculosa* (Gm.)
- +*59. *Seiurus noveboracensis* (Gm.)
- +*60. *Seiurus auricapillus* (Linn.)
- +*61. *Seiurus motacilla* (Vieill.)
- + 62. *Oporornis formosa* (Wils.)
- + 63. *Geothlypis trichas* (Linn.)
- + 64. *Geothlypis philadelphia* (Wils.)
- +*65. *Geothlypis macgillivrayi* (Aud.)
- +*66. *Geothlypis caninucha* Ridgway.
- +*67. *Icteria virens* (Linn.)
- +*68. *Sylvania pusilla pileolata*, (Pall.)
- +*69. *Sylvania canadensis* (Linn.)
- + 70. *Sylvania mitrata* (Gm.)
- +*71. *Basileuterus culicivorus* (Licht.)
- +*72. *Basileuterus mesochrysus* ScL.
- +*73. *Basileuterus melanogenys* Baird.
- +*74. *Basileuterus melanotis* Lawr.
- +*75. *Basileuterus leucopygius* ScL. & Salr.
- +*76. *Setophaga ruticilla* (Linn.)
- +*77. *Setophaga anrantiaca* Baird.
- +*78. *Setophaga torquata* Baird.

Family HIRUNDINIDÆ.

- +*79. *Progne chalybea* (Gm.)
- + 80. *Petrochelidon swainsoni* ScL.
- +*81. *Petrochelidon pyrrhonota* (Vieill.)
- +*82. *Hirundo erythrogaster* Bodd.
- + 83. *Tachycineta albilinea* (Lawr.)
- +*84. *Atticora cyanoleuca montana* Baird.
- +*85. *Stelgidopteryx uropygialis* (Lawr.)
- + 86. *Cotile riparia* (Linn.)

Family VIREONIDÆ.

- +*87. *Vireosylva olivacea* (Linn.)
- +*88. *Vireosylva flavo-viridis* Cassin.
- +*89. *Vireosylva josephæ* ScL.

- *90. *Vireosylva philadelphica* *Cassin.*
 91. *Vireosylva agilis* (*Licht.*)
 *92. *Lanivireo flavifrons* (*Vieill.*)
 —*93. *Vireo pallens* *Salv.*
 *94. *Vireo carmioli* *Baird.*
 *95. *Hylophilus ochraceiceps* *ScL.*
 *96. *Hylophilus decurtatus* (*Bonap.*)
 *97. *Cyclorhis flavipectus* *ScL.*
 —*98. *Vireolanus pulchellus verticalis* *Ridgway.*

Family PTILOGONATIDÆ.

- *99. *Ptilogonys caudatus* *Cab.*
 —*100. *Phainoptila melanoxantha* *Salv.*

Family CÆREBIDÆ.

- *101. *Diglossa plumbea* *Cab.*
 —*102. *Dacnis ultramarina* *Lawr.*
 *103. *Dacnis venusta* *Lawr.*
 —*104. *Chlorophanes guatemalensis* *ScL.*
 *105. *Cœreba cyanea* (*Linn.*)
 —*106. *Cœreba lucida* *ScL. & Salv.*
 *107. *Certhiola mexicana* *ScL.*

Family TANAGRIDÆ.

- *108. *Chlorophonia callophrys* (*Cab.*)
 —*109. *Euphonia elegantissima* (*Bonap.*)
 *110. *Euphonia affinis* *Less.*
 *111. *Euphonia annæ* *Cass.*
 *112. *Euphonia leuicapilla* (*Cab.*)
 *113. *Euphonia gracilis* (*Cab.*)
 114. *Euphonia gnatho* (*Cab.*)
 *115. *Euphonia hirundinacea* *Bonap.*
 *116. *Euphonia gouldi* *ScL.*
 *117. *Euphonia minuta*, *Cab.*
 118. *Euphonia laniirostris*, *D'Orb. & Lafr.*
 *119. *Calliste icterocephala* *Bp.*
 *120. *Calliste guttata* (*Cab.*)
 *121. *Calliste gyroloides* (*Lafr.*)
 *122. *Calliste dowii* *Salv.*
 *123. *Calliste larvata* *Du Bus.*
 124. *Calliste florida* *ScL. & Salv.*
 125. *Calliste lavinia* *Cass.*
 *126. *Tanagra cana* *Sw.*
 *127. *Tanagra palmarum* *Max.*
 *128. *Ramphocelus passerinii* *Bonap.*

- *129. *Phlogothraupis sanguinolenta* *Less.*
 —*130. *Pyrranga erythromelas* *Vieill.*
 —*131. *Pyrranga leucoptera* (*Trud.*)
 —*132. *Pyrranga rubra* (*Linn.*)
 *133. *Pyrranga bidentata* *Sw.*
 *134. *Pyrranga testacea* *ScL. & Salv.*
 —*135. *Phœnicothraupis fuscicauda* *Cab.*
 —*136. *Phœnicothraupis vinacea* *Lawr.*
 —*137. *Chlorothraupis carmioli* (*Lafr.*)
 —*138. *Lanio leucothorax* *Salv.*
 —*139. *Lanio melanopygius*, *Ridgway.*
 140. *Eucometis spodocephala* (*Bonap.*)
 *141. *Eucometis cassini* (*Lawr.*)
 *142. *Tachyphonus luctuosus* *Lafr. & D'Orb.*
 *143. *Tachyphonus delatirii* *Lafr.*
 —*144. *Tachyphonus xanthopygius* *ScL.*
 145. *Tachyphonus melaleucus* (*Sparm.*)
 —*146. *Tachyphonus chrysomelas* *ScL. & Salv.*
 *147. *Tachyphonus nitidissimus* *Salv.*
 *148. *Chlorospingus albitemporalis* (*Lafr.*)
 *149. *Chlorospingus pileatus* *Salv.*
 *150. *Buarremon brunneinuchus* (*Lafr.*)
 —*151. *Buarremon assimilis* (*Boiss.*)
 *152. *Buarremon gutturalis* (*Lafr.*)
 *153. *Buarremon crassirostris* *Cass.*
 154. *Buarremon albinucha* (*Lafr. & D'Orb.*)
 —*155. *Buarremon capitalis* (*Cab.*)
 —*156. *Buarremon tibialis* (*Lawr.*)
 *157. *Arremon aurantirostris* *Lafr.*
 *158. *Saltator atriceps* *Less.*
 *159. *Saltator magnoides* *Lafr.*
 *160. *Saltator grandis* (*Licht.*)
 —*161. *Pitylus poliogaster* *Du Bus.*
 —*162. *Pitylus grossus* (*Linn.*)

Family FRINGILLIDÆ.

- *163. *Pheucticus tibialis* *Baird.*
 *164. *Habia ludoviciana* (*Linn.*)
 — 165. *Oryzoborus funereus* *ScL.*
 *166. *Guiraca cœrulea* (*Linn.*)
 —*167. *Guiraca cyanoides* (*Lafr.*)
 —*168. *Sporophila morelleti* (*Puch.*)

- *169. *Sporophila corvina* (Scl.)
 *170. *Sporophila amita* (Bonap.)
 *171. *Volatinia jacarina* (Linn.)
 *172. *Phonipara pusilla* (Sw.)
 *173. *Passerina cyanea* (Linn.)
 *174. *Passerina ciris* (Linn.)
 *175. *Amaurospiza concolor* Cab.
 *176. *Junco vulcani* (Boucard).
 *177. *Zonotrichia pileata* (Bodd.)
 *178. *Coturniculus savannarum* (Gm.)
 *179. *Spiza americana* (Gm.)
 *180. *Embernagra striaticeps* Lafr.
 *181. *Embernagra superciliosa* Salv.
 *182. *Pyrgisoma cabanisi* Scl. & Salv.
 *183. *Pyrgisoma leucotis* (Cab.)
 *184. *Hæmophila ruficauda* (Bonap.)
 *185. *Astragalinus mexicana* (Sw.)
 *186. *Astragalinus columbiana* (Lafr.)
 *187. *Astragalinus xanthogastra* (DuBus).
 *188. *Acanthidops bairdi* Ridgway.

Family ICTERIDÆ.

- *189. *Ocyalus wagleri* (Gray & Mitch.)
 *190. *Ostinops montezumæ* (Less.)
 *191. *Amblycercus prevosti* (Less.)

- *192. *Cassiens microrhynchus* Scl. & Salv.
 *193. *Icterus pectoralis espinachi* Nutting.
 *194. *Icterus prothemelas* Strickl.
 *195. *Icterus mesomelas* Wagl.
 196. *Icterus giraudi* Cass.
 *197. *Icterus spurius* (Linn.)
 *198. *Icterus galbula* (Linn.)
 *199. *Molothrus æneus* (Wagl.)
 200. *Agelaius phæniceus* (Linn.)
 201. *Dolichonyx oryzivorus* (Linn.)
 202. *Quiscalus macrurus* Sw.
 203. *Cassidix oryzivora* (Linn.)
 *204. *Sturnella magna mexicana* Lawr.

Family CORVIDÆ.

- *205. *Psilorhinus mexicanus* Rüpp.
 *206. *Cyanocorax affinis* Pelz.
 *207. *Cyanocorax argentigula* (Lawr.)
 *208. *Cyanocorax cucullatus* Ridgway.
 *209. *Calocitta formosa* (Sw.)

Family ALAUDIDÆ.

210. *Otocoris alpestris chrysolæma*
 (Wagl.)

(CLAMATORES.)

Family DENDROCOLAPTIDÆ.

- *211. *Synallaxis erythroptis* Scl.
 *212. *Synallaxis pudica* Scl.
 213. *Synallaxis rufigenis* Lawr.
 214. *Synallaxis erythrothorax* Scl.
 *215. *Philydor rufobrunneus* Lawr.
 *216. *Philydor rufus panerythrus* (Scl.)
 *217. *Philydor virgatus* Lawr.
 *218. *Antomolus cervinigularis* Scl.
 *219. *Anabazenops variegaticeps* Scl.
 *220. *Anabazenops subalaris lineatus*
 (Lawr.)
 *221. *Xenops genibarbis* Ill.
 222. *Xenops rutilus* Licht.
 *223. *Sittasomus sylvioides* Lafr.
 *224. *Margarornis rubiginosa* Lawr.
 *225. *Margarornis brunescens* Scl.
 *226. *Glyphorhynchus cuneatus* (Licht.)

- *227. *Dendrocolaptes sancti-thomæ*
 (Lafr.)
 *228. *Dendrocolaptes puncticolis* Scl. &
 Salv.
 *229. *Dendroornis pardalotus* (Vieill.)
 *230. *Dendroornis erythroptigia* Scl.
 *231. *Dendroornis lachrymosa* Lawr.
 *232. *Dendroornis susurrans* (Jard.)
 *233. *Picolaptes affinis* (Lafr.)
 *234. *Picolaptes compressus* (Cab.)
 *235. *Pseudocolaptes lawrencii* Ridgway.
 236. *Dendrocincla anabatina* Scl.
 *237. *Dendrocincla homochroa* Scl.
 *238. *Dendrocincla atrirostris* (Lafr.)
 *239. *Xiphorhynchus pusillus* Scl.
 240. *Sclerurus mexicanus* Scl.
 *241. *Sclerurus guatemalensis* Hartl.

Family OXYRHAMPIDÆ.

- *242. *Oxyrhamphus frater* Scl. & Salv.

Family FORMICARIIDÆ.

- *243. *Cymbilanius lineatus fasciatus* Ridg.
 *244. *Thamnophilus doliatus* (Linn.)
 *245. *Thamnophilus punctatus* Cab.
 *246. *Thamnophilus nævius* (Gm.)
 *247. *Thamnophilus bridgesi* ScL.
 *248. *Thamnophilus transandeanus* ScL.
 *249. *Thamnophilus immaculatus* Lafr.
 *250. *Thamnistes anabatinus* ScL. & Salv.
 *251. *Dysithamnus semicinereus* ScL.
 *252. *Dysithamnus striaticeps* Lawr.
 *253. *Dysithamnus pupeticeps* Salv.
 *254. *Myrmotherula fulviventris* Lawr.
 *255. *Myrmotherula melana* ScL.
 *256. *Myrmotherula menetriesi* D'Orb.
 *257. *Formicivora boucardii* ScL.
 *258. *Ramphocænus semitorquatus* Lawr.
 *259. *Ramphocænus rufiventris* Bp.
 *260. *Gymnocichla chiroleuca* ScL. & Salv.
 *261. *Cercomacra tyrannina* ScL.
 *262. *Myrmeciza immaculata* ScL. & Salv.
 *263. *Myrmeciza lemosticta* Salv.
 *264. *Hypocnemis nævoides* (Lafr.)
 *265. *Pithys bicolor* Lawr.
 *266. *Phlogopsis macleannani* Lawr.
 *267. *Formicarius analis* (Lafr. & D'Orb.)
 *268. *Formicarius hoffmanni* Cab.
 *269. *Pittasoma miehleri zeledoni* Ridg.
 *270. *Grallaria intermedia* Ridgway.
 *271. *Grallaria dives* Salv.
 *272. *Grallaria princeps* ScL. & Salv.
 *273. *Grallaricula costaricensis* Lawr.
 *274. *Grallaricula flavirostris* ScL.
- Family TYRANNIDÆ.
- *275. *Sayornis aquatica* ScL. & Salv.
 *276. *Copurus leucanotus* Lafr.
 *277. *Platyrhynchus canrominus* ScL.
 *278. *Platyrhynchus superciliaris* Lawr.
 *279. *Platyrhynchus albigularis* ScL.
 *280. *Todirostrum cinereum* (Linn.)
 *281. *Todirostrum nigriceps* ScL.
 *282. *Todirostrum schistaceiceps* ScL.
 *283. *Orchilus ecaudatus* (Lafr. & D'Orb.)
 *284. *Pogonotriccus zeledoni* Lawr.
 *285. *Oncostoma cinereigulare* ScL.
- *286. *Euscarthmus squamicristatus*
 (Lafr.)
 *287. *Mionectes assimilis* ScL.
 *288. *Mionectes olivaceus* Lawr.
 *289. *Tyrannulus brunneicapillus* Lawr.
 *290. *Tyranniscus villissimus* ScL. & Salv.
 *291. *Tyranniscus parvus* Lawr.
 *292. *Elainea pagana* (Licht.)
 *293. *Elainea placens* ScL.
 *294. *Elainea frantzii* Lawr.
 *295. *Elainea arenarum* Salv.
 *296. *Legatus albicollis* (Vieill.)
 *297. *Legatus variegatus* (ScL.)
 *298. *Myiozetetes texensis* (Girard).
 *299. *Myiozetetes granadensis* Lawr.
 *300. *Rhyonchocyclus cinereiceps* (ScL.)
 *301. *Rhyonchocyclus brevirostris* (Cab.)
 *302. *Pitangus derbianus* (Kaup).
 *303. *Myiodynastes luteiventris* Bonap.
 *304. *Myiodynastes hemichrysus* (Cab.)
 *305. *Myiodynastes audax* (Gm.)
 *306. *Megarhynchus pitangua* (Linn.)
 *307. *Muscivora mexicana* ScL.
 *308. *Myiobius sulphureipygus* (ScL.)
 *309. *Myiobius erythrurus* (Cab.)
 *310. *Myiobius capitalis* (Salv.)
 *311. *Myiobius atricaudus* (Lawr.)
 *312. *Mitrephanes aurantiiventris* Lawr.
 *313. *Empidonax pusillus traillii* (Aud.)
 *314. *Empidonax flaviventris* Baird.
 *315. *Empidonax flavescens* Lawr.
 *316. *Empidonax minimus* Baird.
 *317. *Empidonax acadicus* (Gm.)
 *318. *Empidonax albigularis* ScL.
 *319. *Empidonax atriceps* Salv.
 *320. *Empidonax viridescens* Ridgway.
 *321. *Contopus virens* (Linn.)
 *322. *Contopus borealis* (Sw.)
 *323. *Contopus richardsoni* (Sw.)
 *324. *Contopus lugubris* Lawr.
 *325. *Contopus ochraceus* ScL. & Salv.
 *326. *Contopus brachytarsus* ScL.
 *327. *Myiarchus crinitus* (Linn.)
 *328. *Myiarchus lawrencii nigricapillus*
 (Cab.)
 *329. *Myiarchus tyrannulus* (Müll.)

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| *330. Myiarchus nuttingi <i>Ridgway.</i> | 346. Pachyrhamphus versicolor (<i>Hartl.</i>) |
| *331. Tyrannus melancholicus satrapa
(<i>Licht.</i>) | 347. Pachyrhamphus albo-griseus <i>Scl.</i> |
| 332. Tyrannus tyrannus (<i>Linn.</i>) | *348. Lathria unirufa (<i>Scl.</i>) |
| 333. Tyrannus dominicensis (<i>Gm.</i>) | *349. Aulia rufescens (<i>Scl.</i>) |
| *334. Tyrannus vociferans <i>Sw.</i> | *350. Lipaugus holerythrus <i>Scl.</i> |
| *335. Milvulus tyrannus (<i>Linn.</i>) | *351. Attila sclateri <i>Lawr.</i> |
| *336. Milvulus forficatus (<i>Gm.</i>) | *352. Heteropelma verapacis <i>Scl.</i> |
| *337. Serpophaga grisea <i>Lawr.</i> | *353. Piprites griseiceps <i>Salv.</i> |
| 338. Leptopogon superciliaris <i>Tsch.</i> | *354. Pipra mentalis <i>Scl.</i> |
| 339. Leptopogon pileatus <i>Cab.</i> | *355. Pipra velutina <i>Berlepsch.</i> |
| 340. Pyrocephalus mexicanus <i>Scl.</i> | *356. Pipra leucorrhœa <i>Scl.</i> |
| | *357. Chiroxiphia linearis (<i>Bonap.</i>) |
| | *358. Chiromachæris candei (<i>Parzud.</i>) |
| | *359. Chiromachæris aurantiaca <i>Salv.</i> |
| | *360. Cotinga amabilis <i>Gould.</i> |
| | *361. Querula cruenta (<i>Bodd.</i>) |
| | 362. Carpodectes nitidus <i>Salv.</i> |
| | *363. Carpodectes antoniæ <i>Zeledon.</i> |
| | *364. Chasmorhynchus tricarunculatus
<i>Verr.</i> |
| | *365. Cephalopterus glabricollis <i>Gould.</i> |

Family COTINGIDÆ.

- *341. Tityra personata *Jard. & Selby.*
 *342. Tityra fraseri *Kaup.*
 *343. Hadrostomus aglaiaë (*Lafr.*)
 *344. Pachyrhamphus cinereiventris *Scl.*
 *345. Pachyrhamphus cinnamomeus
Lawr.

ORDER STRISOIRES.

Family MOMOTIDÆ.

- *366. Urospatha martii (*Spix.*)
 *367. Momotus lessoni *Less.*
 *368. Prionirhynchus platyrhynchus
(Leadb.)
 369. Prionirhynchus carinatus (*Du Bus.*)
 *370. Eumomota superciliaris (*Jard. & Selby.*)

Family ALCEDINIDÆ.

371. Ceryle torquata (*Linn.*)
 *372. Ceryle amazona (*Lath.*)
 373. Ceryle alcyon (*Linn.*)
 *374. Ceryle cabanisi (*Tsch.*)
 *375. Ceryle superciliosa (*Linn.*)
 *376. Ceryle inda (*Linn.*)

Family GALBULIDÆ.

- *377. Galbula melanogenia *Scl.*
 *378. Jacamerops grandis (*Gm.*)

Family BUCCONIDÆ.

- *379. Malacoptila panamensis *Lafr.*
 *380. Monasa grandior *Scl. & Salv.*
 381. Bucco dysoni *Scl.*

Family TROGONIDÆ.

- *382. Trogon puella *Gould.*
 *383. Trogon caligatus *Gould.*
 *384. Trogon aurantiiventris *Gould.*
 *385. Trogon clathratus *Salv.*
 *386. Trogon bairdii *Lawr.*
 *387. Trogon atricollis *Vieill.*
 *388. Trogon massena *Gould.*
 *389. Trogon melanocephalus *Gould.*
 *390. Pharomacrus costaricensis *Cab.*

Family CAPRIMULGIDÆ.

- *391. Chordeiles acutipennis texensis
(Lawr.)
 *392. Antrostomus carolinensis (*Gm.*)

- *393. *Nyetidromus albicollis* (Gm.)
 — *394. *Stenopsis albicauda* Lawr.
 — *395. *Nyetibius jamaicensis* (Gm.)

Family CYPSELIDÆ.

- *396. *Hemiproene zonaris* (Shaw).
 — *397. *Chætura rutila* (Vieill.)
 — *398. *Chætura ganmeri* Lawr.

Family TROCHILIDÆ.

- 399. *Eutoxeres aquila* (Bourc.)
 *400. *Glaucis hirsuta* (Gm.)
 *401. *Glaucis ruckeri* (Bourc.)
 *402. *Phæthornis emiliæ* (Bourc.)
 *403. *Phæthornis longirostris* (Less.)
 *404. *Phæthornis adolphi* Gould.
 — *405. *Campylopterus hemilencurus* (Licht.)
 — 406. *Campylopterus cuvieri* (Delattre).
 — 407. *Cœligena hemilenea* (Salv.)
 *408. *Oreopyra calolæma* Salv.
 *409. *Oreopyra leucaspis* Gould.
 — 410. *Oreopyra cinereicanda* Lawr.
 — 411. *Lampornis prevosti* (Less.)
 — 412. *Lampornis veraguensis* Gould.
 — *413. *Chalybura isauræ* (Gould.)
 — *414. *Chalybura melanorrhœa* Salv.
 415. *Florisuga mellivora* (Linn.)
 *416. *Petasophora cyanotis* (Bourc.)
 — 417. *Petasophora delphinæ* (Less.)
 *418. *Eugenes spectabilis* Lawr.
 *419. *Heliodoxa jacula* Gould.
 *420. *Hemistephania veraguensis* (Salv.)
 *421. *Floricola longirostris* Vieill.
422. *Floricola constanti* (Delattre).
 *423. *Thalurania columbica* (Bourc. & Muls.)
 — 424. *Microchera albocoronata* (Lawr.)
 *425. *Microchera parvirostris* Lawr.
 *426. *Trochilus colubris* Linn.
 — 427. *Selasphorus flammula* Salv.
 *428. *Selasphorus scintilla* Gould.
 — *429. *Selasphorus ardens* Salv.
 — *430. *Selasphorus torridus* Salv.
 — *431. *Doricha bryanti* Lawr.
 *432. *Lophornis helenæ* (Delattre).
 — *433. *Gouldia conversi* (Bourc. & Muls.)
 *434. *Chrysuronia elicæ* (Bourc. & Muls.)
 *435. *Heliothrix barroti* (Bourc.)
 — *436. *Abeillia typica* (Bon.)
 — *437. *Klais guimeti* (Bourc. & Muls.)
 *438. *Pauterpe insignis* Cab.
 439. *Agyrtia candida* (Bourc. & Muls.)
 — 440. *Arinia boucardi* Muls.
 *441. *Elvira eupreiceps* (Lawr.)
 *442. *Elvira chionura* (Gould).
 *443. *Callipharus nigriventris* (Lawr.)
 *444. *Eupherusa egregia* ScL. & Salv.
 — 445. *Amazilia cinnamomea* (Less.)
 *446. *Amazilia fuscicaudata* (Fras.)
 — 447. *Amazilia eduardi* (Delattre).
 *448. *Amazilia sphiæ* (Bourc. & Muls.)
 *449. *Amazilia niveiventris* (Gould).
 — 450. *Juliamyia typica* Bonap.
 *451. *Damophila amabilis* (Gould).
 — 452. *Cyanophaia cæruleigularis* (Gould).
 *453. *Chlorostilbon salvini* (Cab.)
 — 454. *Chlorostilbon angustipennis* (Fras.)

ORDER ZYGODACTYLLI.

Family CUCULIDÆ.

- *455. *Crotophaga sulcirostris* Sw.
 — 456. *Dromococcyx phasianellus* (Spir).
 — *457. *Diplopterus navius* (Linn.)
 — *458. *Piaya cayana mehleri* (Bonap.)
 — *459. *Morococcyx erythropygia* (Less.)
 460. *Coccygus americanus* (Linn.)
 461. *Coccygus erythrophthalmus* (Wils.)

- *462. *Coccygus minor* (Gm.)
 — 463. *Coccygus ferrugineus* Gould.
 — 464. *Neomorpus salvini* ScL.

Family RAMPHASTIDÆ.

- *465. *Ramphastus tocard* Vieill.
 *466. *Ramphastus carinatus* Sw.
 *467. *Pteroglossus torquatus* (Gm.)
 *468. *Pteroglossus frantzii* Cab.

*469. *Selenidera spectabilis* Cass.*470. *Anlacorhamphus cæruleigularis*
Gould.

Family CAPITONIDÆ.

*471. *Capito bourcierii* (Lafr.)*472. *Tetragonops frantzii* ScL.

Family PICIDÆ.

*473. *Campephilus guatemalensis* (Hartl.)+ *474. *Ceophlæus scapularis* Vigors.+ *475. *Dendrocopus jardinii* (Mahl.)*476. *Celeus castaneus* (Wagl.)+ *477. *Celeus loricatus* Reich.*478. *Chloronerpes oleagineus* (Licht.)*479. *Chloronerpes yucatanensis* (Cabot.)*480. *Chloronerpes caboti* (Mahl.)*481. *Chloronerpes simplex* Salv.*482. *Melanerpes formicivorus* Sw.*483. *Melanerpes pucherani* (Mahl.)*484. *Centurus aurifrons hoffmanni* (Cab.)*485. *Picumnus olivaceus* Lafr.

Family PSITTACIDÆ.

*486. *Ara macao* (Linn.)*487. *Ara militaris* (Linn.)*488. *Brotagerys tovi* (Gm.)*489. *Conurus petzii* (Seibl.)*490. *Conurus hoffmanni* Cab.*491. *Conurus finschi* Salv.492. *Conurus aztec* Souancé.*493. *Chrysotis albifrons* (Sparm.)*494. *Chrysotis diademata* (Spir.)*495. *Chrysotis auripalliata* (Less.)*496. *Chrysotis guatemalæ* Hartl.*497. *Pionus senilis* (Spir.)*498. *Pionus menstruus* (Linn.)*499. *Caica hæmatotis* ScL. & Salv.500. *Myiopsitta lineola* (Cass.)

ORDER ACCIPITRES.

Family ALUCONIDÆ.

+ *501. *Aluco pratincolus guatemalæ* Ridg-
way.

Family STRIGIDÆ.

*502. *Strix virgata* Cass.*503. *Strix nigrolineata* ScL.*504. *Pulsatrix torquata* (Daud.)*505. *Bubo virginianus* (Gm.)*506. *Bubo mexicanus* (Gm.)*507. *Asio accipitrinus* (Pall.)*508. *Megascops brasiliensis* (Gm.)*509. *Megascops nudipes* (Vieill.)*510. *Megascops cooperi* (Ridgway).*511. *Lophostrix stricklandi* ScL. & Salv.512. *Speotyto cunicularia hypogæa* (Bp.)*513. *Glaucidium phalænoides* (Daud.)514. *Glaucidium pumilum* (Temm.)*515. *Glaucidium jardiui* (Bonap.)

Family FALCONIDÆ.

516. *Falco peregrinus anatum* (Bp.)*517. *Falco aurantius* Gm.*518. *Falco albigularis* Daud.*519. *Falco columbarius* Linn.520. *Falco fusco-cærulescens* (Vieill.)*521. *Falco sparverius* Linn.*522. *Polyborus cheriway* (Jacq.)523. *Milvago chimachima* (Vieill.)*524. *Ibycter americanus* (Bodd.)*525. *Micrastur melanoleucus* (Vieill.)*526. *Micrastur guerilla* Cass.*527. *Micrastur mirandolli* (Schleg.)*528. *Herpetotheres cachinnans* (Linn.)529. *Pandion haliaetus carolinensis* (Gm.)*530. *Leptodon cayennensis* (Gm.)*531. *Regerhinus uncinatus* (Temm.)*532. *Elanoides forficatus* (Linn.)533. *Elanus leucurus* (Vieill.)*534. *Circus hudsonius* (Linn.)535. *Rostrhamus sociabilis* (Vieill.)*536. *Ictinia plumbea* (Gm.)*537. *Harpagus fasciatus* Larr.*538. *Accipiter cooperi* (Bonap.)*539. *Accipiter bicolor* (Vieill.)*540. *Accipiter fuscus* (Gm.)

- *541. *Spiziastur melanoleucus* (Vieill.)
 *542. *Spizaetus ornatus* (Daud.)
 *543. *Spizaetus tyrannus* (Mar.)
 *544. *Thrasaetus harpyia* (Linn.)
 545. *Urubitornis solitarius* (Tschudi).
 *546. *Urubitinga anthracina* (Nitzsch).
 *547. *Urubitinga zonura ridgwayi* (Gurney).
 *548. *Leucopternis princeps* ScL.
 549. *Leucopternis ghiesbreghti* (DuBus).
 *550. *Leucopternis semiplumbeus* Lawr.
 *551. *Asturina plagiata* (Licht.)
 *552. *Rupornis magnirostris ruficauda* (ScL. & Salv.)
 553. *Heterospizias meridionalis* (Lath.)
 *554. *Parabuteo unicinctus harrisi* (Aud.)
- *555. *Buteo borealis costaricensis* Ridgway.
 *556. *Buteo swainsoni* Bonap.
 *557. *Buteo albicaudatus* Vieill.
 *558. *Buteo pennsylvanicus* (Wils.)
 *559. *Buteo fuliginosus* ScL.
 *560. *Buteo abbreviatus* Cass.
 *561. *Busarellus nigricollis* (Lath.)
 *562. *Geranospizias cærulescens nigra* (DuBus).

Family CATHARTIDÆ.

563. *Gyparchus papa* (Linn.)
 564. *Catharista atrata* (Bart.)
 565. *Cathartes aura* (Linn.)

ORDER COLUMBÆ.

Family COLUMBIDÆ.

- *566. *Columba flavirostris* Wagl.
 *567. *Columba albilinea* Gray.
 *568. *Columba nigrirostris* ScL.
 *569. *Columba subvinacea* (Lawr.)
 570. *Columba speciosa* Gm.
 *571. *Columba rufina*, Temm.
 *572. *Geotrygon montana* (Linn.)
 *573. *Geotrygon costaricensis* Lawr.
 *574. *Geotrygon chiriquensis* ScL.
 *575. *Geotrygon rufiventris* Lawr.
 *576. *Geotrygon albiventer* Lawr.
 *577. *Engyptila verreauxi* (Bonap.)
 *578. *Engyptila cassini* (Lawr.)
 *579. *Engyptila rufinucha* (ScL. & Salv.)
 *580. *Peristera mondetura* Bonap.
 *581. *Peristera cinerea* (Temm.)
 *582. *Columbigallina passerina* (Linn.)
 *583. *Columbigallina rufipennis* (Bonap.)
 *584. *Melopelia leucoptera* (Linn.)
 *585. *Zenaidura carolinensis* (Linn.)

Family CRACIDÆ.

- *586. *Penelope cristata* (Linn.)
 *587. *Chamæpetes unicolor* Salv.
 *588. *Ortalis cinereiceps* (Gray).
 *589. *Crax globicera* Linn.

Family PERDICIDÆ.

- *590. *Ortyx leylandi* Moore.
 *591. *Dendrotyx leucophrys* Gould.
 *592. *Odontophorus guttatus* Gould.
 *593. *Odontophorus veraguensis* Gould.
 *594. *Odontophorus leucokemus* Salv.
 595. *Odontophorus melanotis* Salv.

Family TINAMIDÆ.

- *596. *Tinamus robustus* ScL. & Salv.
 *597. *Nothocercus bonapartii* (Gray).
 598. *Crypturus boucardi* (Sallé.)
 *599. *Crypturus peliatus* (Bodd.)
 600. *Crypturus sallæi* (Bonap.)

ORDER LIMICOLÆ.

Family CHARADRIIDÆ.

601. *Charadrius dominicus* Müll.
 602. *Charadrius squaterola* (Linn.)
 603. *Edicnemus bistratus* Wagl.
 — 604. *Hoplopterus cayanus* Lath.
 *605. *Oxyechus vociferus* (Linn.)
 606. *Ægialitis semipalmata* Bonap.
 607. *Ægialitis nivosa* (Cass.)
 608. *Ægialitis collaris* (Vieill.)
 609. *Ochthodromus wilsonius* (Ord.)

Family HÆMATOPODIDÆ.

610. *Hæmatopus palliatus* Temm.

Family STREPSILIDÆ.

611. *Arenaria interpres* (Linn.)

Family SCOLAPACIDÆ.

612. *Gallinago wilsoni* (Temm.)
 613. *Macrorhamphus scolapaceus* (Say).

- *614. *Totanus flavipes* (Gm.)
 *615. *Totanus melanoleucus* (Gm.)
 *616. *Rhyacophilus solitarius* (Wils.)
 *617. *Actitis macularia* (Linn.)
 618. *Bartramia longicauda* (Bechst.)
 619. *Actodromus maculata* (Vieill.)
 620. *Actodromus bairdii* Coes.
 621. *Actodromus fuscicollis* (Vieill.)
 622. *Actodromus minutilla* (Vieill.)
 623. *Calidris arenaria* (Linn.)
 624. *Ereunetes pusillus* (Linn.)
 625. *Micropalama himantopus* (Bonap.)
 626. *Symphemia semipalmata* (Gm.)
 627. *Tryngites rufescens* (Vieill.)
 628. *Limosa hæmastica* (Linn.)
 629. *Numenius hudsonicus* Lath.
 630. *Numenius borealis* (Forst.)

Family RECURVIROSTRIDÆ.

631. *Himantopus mexicanus* (Müll.)

ORDER HERODIONES.

Family CICONIIDÆ.

- *632. *Mycteria americana* Linn.
 633. *Tantalus loculator* Linn.

Family IBIDIDÆ.

634. *Guara rubra* (Linn.)
 *635. *Guara alba* (Linn.)
 636. *Plegadis guaranna* (Linn.)
 — *637. *Harpiprion cayennensis* (Gm.)

Family PLATALEIDÆ.

- *638. *Ajaja ajaja* (Linn.)

Family CANCROMIDÆ.

- *639. *Canceroma zeledoni* Ridgway.

Family ARDEIDÆ.

640. *Hydronassa tricolor ruficollis* (Gosse.)

- *641. *Garzetta candidissima* (Gm.)
 *642. *Herodias egretta* (Gm.)
 *643. *Ardea herodias* Linn.
 *644. *Butorides virescens* (Linn.)
 *645. *Florida cærulea* (Linn.)
 *646. *Tigrisoma cabanisi* Heine.
 *647. *Tigrisoma salmoni* Schl. & Salv.
 — 648. *Agauia picta* Bonap.
 *649. *Botaurus lentiginosus* (Montag.)
 — 650. *Botaurus pinnatus* (Licht.)
 *651. *Nycticorax nycticorax naevius* (Bodd.)
 *652. *Nytherodius violaceus* (Linn.)

Family EURYPYGIDÆ.

- *653. *Eurypyga major* Hartl.

ORDER ALECTORIDES.

Family ARAMIDÆ.

- *654. *Aramus gigantens* (Bonap.)
 *655. *Aramides cayennensis* (Gm.)
 656. *Ionornis martinica* (Linn.)
 657. *Gallinula galeata* (Licht.)
 *658. *Fulica americana* Gm.
 *659. *Porzana albigularis* (Lawr.)
 † *660. *Porzana cinereiceps* Lawr.
 *661. *Porzana carolina* (Linn.)

Family JACANIDÆ.

- *662. *Jacana gymnostoma* (Wagl.)

Family HELIORNITHIDÆ.

663. *Helionis fulica* Bodd.

Family ANATIDÆ.

- *664. *Dendrocygna autumnalis* (Linn.)
 *665. *Cairina moschata* (Linn.)
 666. *Anas boschas* Linn.
 *667. *Querquedula discors* (Linn.)
 *668. *Querquedula cyanoptera* (Vieill.)
 *669. *Dafila acuta* (Linn.)
 670. *Spatula clypeata* (Linn.)
 *671. *Fulix affinis* (Eyton).
 672. *Mareca americana* (Gm.)
 673. *Erismatura rubida* (Wils.)

ORDER STEGANOPODES.

Family PELECANIDÆ.

- 674. *Pelecanus erythrorhynchus* Gm.
 675. *Pelecanus fuscus* Linn.

Family SULIDÆ.

676. *Sula leucogastra* (Bodd.)

Family FREGATIDÆ.

677. *Fregata aquila* (Linn.)

Family PHALACROCORACIDÆ.

- *678. *Phalacrocorax brasilianns* (Gm.)

Family PLOTIDÆ.

679. *Plotus anhinga* (Linn.)

Family PHÆTHONTIDÆ.

680. *Phaethon aethereus* Linn.
 681. *Phaethon flavirostris* Brandt.

ORDER LONGIPENNES.

Family LARIDÆ.

682. *Larus atricilla* Linn.
 683. *Anous stolidus* (Linn.)
 684. *Sterna maxima* Bodd.
 685. *Sterna nilotica* Hasselq.

686. *Sterna fuliginosa* Gm.
 687. *Sterna anosthæta* Scop.
 688. *Hydrochelidon surinamensis* (Gm.)

Family RHYNCHOPSIDÆ.

689. *Rhynchops nigra* Linn.

ORDER TUBINARES.

Family PROCELLARIDÆ.

690. *Diomedea* ———.

ORDER PYGOPODES.

Family PODICIPIDÆ.

691. *Podilymbus podiceps* (Linn.)
 692. *Podiceps dominicus* (Linn.)

Table of families, showing number of genera and species.

Families.	Genera.	Species.	Families.	Genera.	Species.
Turdidae	4	17	Falconidae	29	47
Mimidae	2	2	Cathartidae	3	3
Cinclidae	1	1	Columbidae	7	20
Syriidae	1	1	Cracidae	4	4
Troglodytidae	9	21	Perdidae	3	6
Mniotiltidae	14	36	Tinamidae	3	5
Hirundinidae	7	8	Charadriidae	6	9
Vireonidae	6	12	Hamatopodidae	1	1
Ptilonotidae	2	2	Streptopidae	1	1
Certhidae	5	7	Scolopacidae	14	19
Tanagridae	17	55	Recurvirostridae	1	1
Fringillidae	18	26	Ciconiidae	2	2
Icteridae	11	16	Ibididae	3	4
Corvidae	3	5	Plataleidae	1	1
Alaudidae	1	1	Canceronidae	1	1
Dendrocolaptidae	15	31	Ardeidae	11	13
Oxyrhamphidae	1	1	Erythridae	1	1
Formicariidae	17	32	Aramidae	1	1
Tyrannidae	29	66	Rallidae	5	7
Cotingidae	17	25	Jacaniidae	1	1
Momotidae	4	5	Helionithidae	1	1
Alcedinidae	1	6	Anatidae	9	10
Galbulidae	2	2	Pelecanidae	1	2
Bucconidae	3	3	Sulidae	1	1
Trogonidae	2	9	Fregatidae	1	1
Caprimulgidae	5	5	Phalacrocoracidae	1	1
Cypselidae	2	3	Platidae	1	1
Trochilidae	36	56	Phaethontidae	1	2
Cuculidae	7	10	Laridae	4	7
Ramphastidae	4	6	Rhynchopsidae	1	1
Capitonidae	2	2	Procellariidae	1	1
Picidae	8	13	Podicipidae	2	2
Psittacidae	7	15			
Aluconidae	1	1		394	692
Strigidae	8	14			

Index to the genera, with the corresponding numbers of their first species.

Genera.	Corresponding numbers of first species.	Genera.	Corresponding numbers of first species.
A.			
Abeillia	436	Aulacorhamphus	470
Acanthidops	188	Aulia	349
Accipiter	538	Automolus	218
Actitis	617	B.	
Actodromus	919	Bartramia	618
Aegialitis	606	Basileuterus	71
Agamia	648	Botaurus	649
Agelaius	200	Brotogeris	488
Agyrtria	439	Buarremon	150
Ajaja	638	Bubo	505
Aluco	501	Bucco	381
Amaurospiza	175	Busarellus	561
Amazilia	445	Buteo	555
Amblycercus	191	Butorides	644
Anabazenops	219	C.	
Anas	666	Cairina	665
Anous	683	Caica	499
Antrostomus	392	Calidris	623
Aramides	655	Calliste	54
Aramus	654	Callipharus	443
Ara	486	Calocitta	209
Arinia	440	Campephilus	249
Ardea	643	Campylorhynchus	23
Arenaria	611	Campylopterus	405
Arremon	157	Cancerua	639
Asio	507	Capito	471
Astragalinus	185	Carpodectes	362
Asturina	551	Cassicus	192
Atticora	84		
Attila	351		

Index to the genera—Continued.

Genera.	Corresponding numbers of first species.	Genera.	Corresponding numbers of first species.
Cassidix	203	Embernagra	180
Catharista	564	Empidonax	313
Cathartes	565	Ereunetes	424
Catharus	1	Erisamatura	673
Celeus	476	Eucometis	140
Centurus	484	Eugenes	418
Ceophloeus	474	Egyptila	577
Cephalopterus	365	Eupherusa	444
Cercomacra	261	Euphonia	109
Certhiola	107	Eumomota	370
Ceryle	371	Eurypyga	653
Charadrius	601	Euscarthmus	286
Chasmorhynchus	364	Eutoxeres	399
Chalybura	413		
Chamaepetes	587		
Chaetura	397	F.	
Chiromachæris	358	Falco	516
Chiroxiplia	357	Florida	645
Chlorophanes	104	Floricola	421
Chlorophonia	108	Florisuga	415
Chlorothraupis	137	Formicarius	267
Chlorospingus	148	Formicivora	257
Chloronerpes	478	Fregata	677
Chlorostilbon	453	Fulica	658
Chordeiles	391	Fulix	671
Chrysomitra	434		
Chrysotis	493		
Cinclus	20	G.	
Cistothorus	42	Galeoscoptes	19
Circus	534	Galbula	377
Coccyzus	460	Gallinago	612
Cereba	105	Gallimla	657
Cæligena	407	Garzetta	641
Copurus	276	Geothlypis	63
Columba	566	Geotrygon	572
Columbigallina	582	Geranospizias	562
Contopus	321	Glaucis	400
Conurus	489	Glaucidium	513
Cotile	86	Glyphorhynchus	226
Cotinga	360	Grallaria	270
Coturniculus	178	Grallariola	273
Crax	589	Gouldia	433
Crotophaga	475	Guara	634
Crypturus	598	Guiraca	166
Cyanocorax	206	Gymnocichla	260
Cyanophaia	452	Gyparchus	563
Cyclorhis	97		
Cyphorinus	25	H.	
Cymbalanius	243	Habia	164
D.		Hædrostomus	343
Dacnis	102	Hæmatopus	610
Dafila	669	Hæmophila	184
Damophila	451	Harpagus	537
Dendrocolaptes	227	Harpiprion	637
Dendrocincla	236	Heliodoxa	419
Dendrocopus	475	Heliothrix	435
Dendrocygna	664	Heliornis	663
Dendrorhina	229	Helminthophila	47
Dendrotyx	591	Helmiternus	49
Dendroica	50	Hemiprocne	396
Diglossa	101	Hemistephanus	420
Diomedea	690	Henicorhina	27
Diplopterus	457	Herpetoberes	528
Dolichonyx	201	Heterodias	642
Doricha	431	Heteropelma	352
Dromococcyx	456	Heterospizias	553
Dysithamnus	251	Himantopus	631
E.		Iirundo	82
Elainea	292	Hoplopterus	604
Elanoides	532	Hylodichla	6
Elanus	533	Hylophilus	95
Elvira	441	Hydronassa	640
		Hydrochelidon	688
		Hypocnemis	264

Index to the genera—Continued.

Genera.	Corresponding numbers of first species.	Genera.	Corresponding numbers of first species.
I.			
Ibycter	524	Nyctihus	395
Icteria	67	Nycticorax	651
Icterus	193	Nyctidromus	393
Ictinia	536	O.	
Ionornis	356, 366	Ochthodromus	609
J.			
Jacamerops	378	Ocyalus	189
Jacana	662	Odontophorus	592
Juliamyia	450	Edicnemus	603
Junco	176	Oporornis	62
K.			
Klais	437	Orchilus	283
L.			
Lampornis	411	Oreopyia	408
Lanio	138	Orcothlypis	45
Lanivireo	92	Oryzoborus	165
Larus	682	Ortalis	588
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IDENTIFICATION OF THE SPECIES OF CYPRINIDÆ AND CATOSTOMIDÆ, DESCRIBED BY DR. CHARLES GIRARD, IN THE PROCEEDINGS OF THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA FOR 1856.

By DAVID S. JORDAN.

In the years from 1851 to 1855 large collections of fresh-water fishes were made in the western parts of the United States by naturalists attached to the United States and Mexican Boundary Commission and to the Pacific Railroad Survey.

The new species in these collections were described by Dr. Charles Girard in different papers in the Proceedings of the Academy of Natural Sciences of Philadelphia, 1853 to 1859, and again in the report of the United States and Mexican Boundary Survey and the United States and Pacific Railroad Explorations, Vol. X, both works being issued in 1859.