SM1a : Sampling table with the taxonomy,locomotion, perching performance estimation, source, and collection number

| Taxonomy | Locomotion | Perching performance | Source | ID |
| --- | --- | --- | --- | --- |
| **Conopophagidae** |  |  |  |  |
| Conopophaga melanops | Hop | Low | UFRJ | UFRJ919 |
| **Dendrocolaptidae** |  |  |  |  |
| *Sittasomus griseicapillus* | Climb | High | UFRJ | UFRJ1769 |
| *Dendrocincla turdina* | Climb | High | UFRJ | UFRJ922 |
| *Campylorhamphus falcularius* | Climb | High | UFRJ | UFRJ1932 |
| *Campylorhamphus falcularius* | Climb | High | UFRJ | UFRJ1947 |
| *Sittasomus griseicapillus* | Climb | High | UFRJ | UFRJ2009 |
| *Xiphocolaptes albicollis* | Climb | High | UFRJ | UFRJ2016 |
| *Xiphocolaptes albicollis* | Climb | High | UFRJ | UFRJ2017 |
| *Glyphorynchus spirurus* | Climb | High | UFRJ | UFRJ1951 |
| *Hylexetastes perrotii* | Climb | High | UFRJ | UFRJ1958 |
| *Deconychura longicauda* | Climb | High | UFRJ | UFRJ1961 |
| *Glyphorynchus spirurus* | Climb | High | UFRJ | UFRJ1968 |
| **Formicariidae** |  |  |  |  |
| *Chamaeza ruficauda* | Walk | Low | UFRJ | UFRJ1125 |
| *Chamaeza ruficauda* | Walk | Low | UFRJ | UFRJ1946 |
| *Formicarius colma* | Walk | Low | UFRJ | UFR920 |
| **Furnariidae** |  |  |  |  |
| *Anabazenops fuscus* | Hop | High | UFRJ | UFRJ2015 |
| *Aphrastura spinicauda* | Climb | High | Morphosource | FMNH:birds:314046 |
| *Automolus leucophthalmus* | Hop | Medium | UFRJ | UFRJ1937 |
| *Furnarius rufus* | Walk | Low | Morphosource | FMNH:birds:105658 |
| *Furnarius rufus* | Walk | Low | UFRJ | UFRJ1934 |
| *Gyalophylax hellmayri* | Hop | Low | UFRJ | UFRJ2060 |
| *Lochmias nematura* | Hop | Medium | UFRJ | UFRJ2011 |
| *Lochmias nematura* | Hop | Medium | UFRJ | UFRJ2012 |
| *Phacellodomus rufifrons* | Hop | Low | UFRJ | UFRJ2033 |
| *Phacellodomus rufifrons* | Hop | Low | UFRJ | UFRJ2061 |
| *Philydor atricapillus* | Hop | High | UFRJ | UFRJ1161 |
| *Philydor atricapillus* | Hop | High | UFRJ | UFRJ1940 |
| *Roraimia adusta* | Climb | High | Morphosource | FMNH:birds:335140 |
| *Sylviorthorhynchus desmursii* | Hop | High | Morphosource | FMNH:birds:343607 |
| *Xenops minutus* | Climb | High | UFRJ | UFRJ1936 |
| *Xenops minutus* | Climb | High | UFRJ | UFRJ2019 |
| **Grallariidae** |  |  |  |  |
| *Hylopezus paraensis* | Hop | Low | MPEG | A1935 |
| **Melanopareiidae** |  |  |  |  |
| *Melanopareia bitorquata* | Hop | Low | Morphosource | FMNH:birds:335140 |
| **Rhinocryptidae** |  |  |  |  |
| *Merulaxis ater* | Walk | Low | UFRJ | UFRJ0862 |
| **Scleruridae** |  |  |  |  |
| *Sclerurus scansor* | Hop | Low | UFRJ | UFRJ2008 |
| *Sclerurus scansor* | Hop | Low | UFRJ | UFRJ2018 |
| **Thamnophilidae** |  |  |  |  |
| *Myrmorchilus strigilatus* | Walk | Low | UFRJ | UFRJ 2059 |
| *Euchrepomis spodioptila* | Hop | Medium | Morphosource | FMNH:birds:344009 |
| *Hypocnemoides maculicauda* | Hop | Low | UFRJ | UFRJ1328 |
| *Willisornis poecilinotus* | Hop | Medium | UFRJ | UFRJ1964 |
| *Myrmoderus loricatus* | Hop | Low | UFRJ | UFRJ855 |
| *Hypoedaleus guttatus* | Hop | Medium | UFRJ | UFRJ1935 |
| *Dysithamnus mentalis* | Hop | Medium | UFRJ | UFRJ1944 |
| *Thamnophilus caerulescens* | Hop | Medium | UFRJ | UFRJ1945 |
| *Hypoedaleus guttatus* | Hop | Medium | UFRJ | UFRJ2013 |
| *Mackenziaena severa* | Hop | Medium | UFRJ | UFRJ2014 |
| *Phlegopsis nigromaculata* | Hop | Medium | UFRJ | UFRJ1971 |
| *Willisornis poecilinotus* | Hop | Medium | UFRJ | UFRJ1980 |
| *Dysithamnus mentalis* | Hop | Medium | UFRJ | UFRJ744 |
| *Drymophila squamata* | Hop | Medium | UFRJ | UFRJ475 |
| *Drymophila squamata* | Hop | Medium | UFRJ | UFRJ480 |
| *Drymophila squamata* | Hop | Medium | UFRJ | UFRJ481 |
| *Myrmotherula axillaris* | Hop | Medium | UFRJ | UFRJ932 |
| *Sakesphorus cristatus* | Hop | Low | UFRJ | UFRJ938 |
| *Myrmornis torquata* | Hop | Low | Morphosource | YPM:birds:106157 |

##### Abbreviations: MPEG, Museu Paraense Emílio Goeldi. UFRJ, Universidade Federal do Rio de Janeiro. Locomotion and perching performance justification can be found in SI 2. The Morphosource files were downloaded from www.MorphoSource.org, Duke University; all ark identifiers can be found in SM1b.