

**Table S1** – List of species with undescribed calls in the subfamily Lophyohylinae, and their Biome of predominant occurrence.

<b>Species</b>	<b>Biome</b>
<i>Aparasphenodon bokermanni</i> Pombal, 1993	Atlantic forest
<i>Aparasphenodon brunoi</i> Miranda-Ribeiro, 1920	Atlantic forest
<i>Aparasphenodon pomba</i> Assis, Santana, Silva, Quintela, and Feio, 2013	Atlantic forest
<i>Aparasphenodon venezolanus</i> (Mertens, 1950)	Amazon
<i>Corythomantis galeata</i> Pombal, Menezes, Fontes, Nunes, Rocha, and Van Sluys, 2012	Caatinga
<i>Dryaderces inframaculata</i> (Boulenger, 1882)	Amazon
<i>Dryaderces pearsoni</i> (Gauge, 1929)	Amazon
<i>Osteocephalus alboguttatus</i> (Boulenger, 1882)	Amazon
<i>Osteocephalus cabrerai</i> (Cochran and Goin, 1970)	Amazon
<i>Osteocephalus camufatus</i> Jungfer, Verdade, Faivovich, and Rodrigues, 2016	Amazon
<i>Osteocephalus carri</i> (Cochran and Goin, 1970)	Amazon
<i>Osteocephalus castaneicola</i> Moravec, Aparicio, Guerrero-Reinhard, Calderón, Jungfer, and Gvoždík, 2009	Amazon
<i>Osteocephalus duellmani</i> Jungfer, 2011	Amazon
<i>Osteocephalus festae</i> (Peracca, 1904)	Amazon
<i>Osteocephalus fuscifacies</i> Jungfer, Ron, Seipp, and Almendáriz, 2000	Amazon
<i>Osteocephalus helenae</i> (Ruthven, 1919)	Amazon
<i>Osteocephalus heyeri</i> Lynch, 2002	Amazon
<i>Osteocephalus leoniae</i> Jungfer and Lehr, 2001	Amazon
<i>Osteocephalus mimeticus</i> (Melin, 1941)	Amazon
<i>Osteocephalus oophagus</i> Jungfer and Schiesari, 1995	Amazon
<i>Osteocephalus planiceps</i> Cope, 1874	Amazon
<i>Osteocephalus subtilis</i> Martins and Cardoso, 1987	Amazon
<i>Osteocephalus verruciger</i> (Werner, 1901)	Amazon
<i>Osteocephalus vilarsi</i> (Melin, 1941)	Amazon
<i>Osteocephalus yasuni</i> Ron and Pramuk, 1999	Amazon
<i>Osteopilus crucialis</i> (Harlan, 1826)	Caribbean forest
<i>Osteopilus ocellatus</i> (Linnaeus, 1758)	Caribbean forest

<i>Osteopilus vastus</i> (Cope, 1871)	Caribbean forest
<i>Osteopilus wilderi</i> (Dunn, 1925)	Caribbean forest
<i>Phyllodytes brevirostris</i> Peixoto and Cruz, 1988	Atlantic forest
<i>Phyllodytes maculosus</i> Cruz, Feio, and Cardoso, 2007	Atlantic forest
<i>Phyllodytes punctatus</i> Caramaschi and Peixoto, 2004	Atlantic forest
<i>Phytotriades auratus</i> (Boulenger, 1917)	Amazon
<i>Tepuihyla aecii</i> Ayarzagüena, Señaris, and Gorzula, 1993	Amazon
<i>Tepuihyla exophthalma</i> (Smith and Noonan, 2001)	Amazon
<i>Tepuihyla luteolabris</i> Ayarzagüena, Señaris, and Gorzula, 1993	Amazon
<i>Tepuihyla warreni</i> (Duellman and Hoogmoed, 1992)	Amazon
<i>Trachycephalus "vermiculatus"</i> (Cope, 1877)	Caribbean forest
<i>Trachycephalus coriaceus</i> (Peters, 1867)	Amazon
<i>Trachycephalus hadroceph</i> (Duellman and Hoogmoed, 1992)	Amazon
<i>Trachycephalus helioi</i> Nunes, Suárez, Gordo, and Pombal, 2013	Amazon
<i>Trachycephalus jordani</i> (Stejneger and Test, 5891)	Amazon
<i>Trachycephalus lepidus</i> (Pombal, Haddad, and Cruz, 2003)	Atlantic forest
<i>Trachycephalus macrotis</i> (Andersson, 1945)	Amazon
<i>Trachycephalus mambaiensis</i> Cintra, Silva, Silva, Garcia, and Zaher, 2009	savannah
<i>Trachycephalus quadrangulum</i> (Boulenger, 1882)	Amazon

---