The Cerrado is the second largest phytogeographical domain in Brazil and one priority area for conservation, since it is a biodiversity hotspot (Myers et al., 2000). In Brazil, the implementation of protected areas is the most important mechanism to conserve the biodiversity (Araújo et al., 2012). However, only 4% of Cerrado’s original area is protected as federal conservation units (Cabral and Brito, 2013). About 210 anuran species occur in the Cerrado, of which 51.7% are endemic to it (Valdujo et al., 2012), but many localities remain poorly sampled or only short-term studies are available (e.g., Kopp et al., 2010; Morais et al., 2011). Examples of long-term monitoring of anuran species in the Cerrado are scarce in the literature, and in this sense the Silvânia National Forest (SNF) is one of the most studied localities from Cerrado biome (e.g., Bastos et al., 2003; Bini et al., 2003; Morais et al., 2012).

The SNF is located in Silvânia county, Goiás state, central Brazil and has only 466 ha of protected area. The anuran species from this locality have been sampled for many years (e.g., Bastos et al., 2003; Morais et al., 2012). Bastos et al. (2003) studied the anuran species in this area from 1995 to 2000, with different sampling methods (e.g., pitfall traps with drift fences and active search) and found 29 anuran species. Morais et al. (2012) sampled intensively the anuran species in the SNF from 2008 to 2009 and updated the species list of this locality. The results presented by Morais et al. (2012) included four new records of anuran species. Therefore, currently 33 species may be found in this locality, of which 15 species are endemic to the Cerrado biome (Valdujo et al., 2012) and two species are listed as Data Deficient in the IUCN Red List (IUCN, 2013).

Despite these previous studies, we continued to study the anurans in the SNF. Accordingly, we annually monitor this locality, with sampling restricted to rainy season (from October to March). Herein, we present a new record of an anuran species in this area. On January 17th of 2013, at 2240 h, a male of *Leptodactylus mystaceus* (Spix, 1824) (SVL = 49.13 mm; Mass = 10.02 g; Air temperature = 21ºC; Fig. 1) was found by us (16º38’18”S, 48º38’47”W, DATUM=WGS84; 936 m a.s.l.). We identified the specimen based in the

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**Long-term sampling enables a new record of an anuran at the Silvânia National Forest, Central Brazil**

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**Figure 1.** *Leptodactylus mystaceus*, adult male from Floresta Nacional de Silvânia, Goiás state, central Brazil.
Then, we observed the following characters: spatula-like snout shape, dorsal folds absent, dorsolateral folds distinct, complete, lateral folds absent, upper shank barred, brownish dorsal coloration and shoulder blades readily perceptible. After identification, we released the individual in the same place.

*Leptodactylus mystaceus* is known from the Amazon basin in Brazil, Bolivia, Peru, Ecuador, Colombia, Venezuela, Guianas and recently some populations have been reported in northeastern, southeast and south of Brazil (de Sá et al., 2014; Frost, 2014; Affonso et al., 2011; Toledo et al., 2005) (Fig. 2). The occurrence of *L. mystaceus* at SNF was not reported by Bastos et al. (2003) and Morais et al. (2012). Therefore, this report increases the anuran species richness of SNF to 34 species. Although SNF is the second smallest conservation unit of this phytogeographical domain (ICMBIO, 2012), its anuran richness represents about 16% of that found in the Cerrado. This anuran richness of this area is larger than that registered in other representative protected areas of this biome, with an area more than 100.000 ha, such as Serra da Canastra National Park (29 species - Haddad et al., 1988) and Emas National Park (27 species - Kopp et al., 2010).

This finding reinforces the importance of long-term studies with anuran species, because these may be useful to support conservation action about the most threatened vertebrates in the world. Furthermore, this discussion demonstrates that SNF is playing an important role in the conservation of anurans from phytogeographical domain as proposed by conservation policy in Brazil (SNUC, 2000).

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