SHORT COMMUNICATION

Nesting of the Common Potoo, Nyctibius griseus (Gmelin, 1789) (Aves: Nyctibiidae) in an urban environment in central Cerrado

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Abstract

This is a report on two nesting attempts by the Common Potoo (Nyctibius griseus) in an urban environment at Palmeiras de Goiás, Goiás state, central Brazil. In December 12, 2006, a nest was found on a tree (Caesalpinia pothoroides), 2.8 m above the ground. This nest contained a white egg with dark red and brown patches. A few days later, no eggs were found in this nest. Other nesting attempt was recorded on October 9, 2007, when a chick was found in the same place used as nesting site in 2006. The young was not found in the next days. Our study is the first to document the nesting of N. griseus in the Cerrado core area.

Key words: Caprimulgiformes, nest site, Cerrado, urban ecology.

Potoos (Nyctibiidae) are nocturnal and cryptic birds endemic to the Neotropical region (Sick, 1997). The seven species inhabit mainly forests, where they spend the day perched on broken trunks or branches keeping a vertical posture (Cohn-Haft 1999). They most often feed on flying insects during the crepuscular period or at night (Cohn-Haft 1999). Potoos are monogamous birds that nest on tree depressions to which they add no nesting material (Vanderwerf, 1988; Sick, 1997; Cohn-Haft, 1999; Lopes & Anjos, 2005).

The Common Potoo (Nyctibius griseus) is widely distributed throughout most of the Neotropics (Sick, 1997; Sigrist, 2006). It can be found in a wide range of habitats such as woodlands, savannas, secondary forests and mangroves (Sick, 1997; Cohn-Haft, 1999; Cooper & Kay, 2004). Camouflage and behavior are similar to those of other species of the family (Tate, 1994; Cohn-Haft, 1999). Despite being considered a common species, with low sensitivity to human disturbance, its biology remains poorly known (Tate, 1994; Stotz et al., 1996, Cohn-Haft, 1999).

The breeding biology of N. griseus has been examined in detail in a few countries, such as Costa Rica, Ecuador, Mexico and Venezuela (Skutch, 1970; Tate, 1994; Greeney et al., 2004), and few studies were developed in Brazil. For example, Goeldi (1896) described its nest in forests of Rio de Janeiro. A more detailed description of its breeding habits involved observations on two nests in a University campus in southern Brazil (Lopes & Anjos, 2005). As a result of the scarcity of studies, the breeding biology of N. griseus remains little or not known in several Neotropical regions, including the Cerrado.

This study reports on two nesting attempts by N. griseus in the urban environment of Palmeiras de Goiás (16°52’30” S; 49°52’30” W; at an altitude of 600 m), central Goiás state, Brazil, in the core area of the Cerrado domain (Brazilian savanna). This municipality harbors about 21,000 people within an area of 1,540 km² (IBGE, 2007), and is located 79 km from Goiânia (the state capital). The original landscapes around the city were typical of the Cerrado region (Eiten, 1972; Oliveira & Marquis, 2002), with grasslands and savanna woodlands dominating uplands, and gallery forests, marshes and veredas occurring in the valleys. Due to intense agriculture and wood extraction in the last years, Palmeiras de Goiás is now surrounded by soybean, corn and eucalypt plantations. Remnants of forest and non-forest native vegetation are embedded within these exotic-vegetation matrix. The regional climate is tropical and marked by two well defined seasons – wet and dry (Assad, 1994). Most of the annual precipitation (1,200 mm to 2,000 mm) falls between October and March.
dry season occur between May and September. June and July are the coldest months, while higher temperatures occur between December and February (Assad, 1994). The neighborhood where the nesting tree was located was composed of residences and commercial buildings. Most streets are paved and car traffic can be intense. Observations on both nests occurred every 2-3 days until the nest content (egg or chick) disappeared.

First nesting attempt. A nest of *Nyctibius griseus* was found on a tree (*Caesalpinia potheroides*, Fabaceae), in December 12, 2006. On the occasion, an adult was on the nest, its vertical posture making it resemble the apex of a broken branch, as described previously (Tate, 1994; Cohn-Haft, 1999; Sick, 1997; Lopes & Anjos, 2005; Sigrist, 2006). The nesting tree was adjacent to other four trees, forming a continuous canopy. Around this group of trees, shrubs were absent and grasses occurred as isolated patches. The nesting tree was on the walking side of a paved road with intermediate car traffic.

The nest was 2.8 m above the ground, higher than nests reported in Goeldi (1896), but lower than nests found in other studies (Muir & Butler 1925, Skutch 1970, Borrero 1970, 1980, Tate 1994, Lopes & Anjos 2005). The nest cavity, nearly round, was close to the major trunk of the tree (Fig. 1), formed by the decomposition of the interior of the basal portion of a broken branch. This is a nest of the “simple/unlined type” of the “elementary standard” of Simon & Pacheco’s (2005) classification; narrower (33 mm in diameter) than those of nest cavities described previously (Goeldi, 1896; Muir & Butler, 1925; Borrero, 1970; Lopes & Anjos, 2005), and with a depth (22 mm deep) comparable to those of nests found in southern Brazil (Lopes & Anjos, 2005).

The nest had only one white egg, with dark red and brown patches concentrated on its equator and large pole as described in previous studies examining the reproduction of *N. griseus* in other regions (Cohn-Haft, 1999; Cooper & Kay, 2004; Lopes &
Anjos, 2005). No material was found in the nest, in agreement with findings of other nests elsewhere (Goeldi, 1896; Müir & Butler, 1925; Skutch, 1970; Borrero, 1980; Tate, 1994; Cohn-Haft, 1999; Lopes & Anjos, 2005). Also, no feces were found inside or below the nest, similarly to reports by Skutch (1970) and Lopes & Anjos (2005). This clean aspect probably reduces the probability of nest finding by predators, as suggested for birds in general (Sick 1997).

**Second nesting attempt.** In December 9, 2007, an adult and a chick were found on the same cavity used as nesting site in the previous year. The adult was partially covering the chick with its abdominal feathers. Both the adult and young were in vertical position, as reported previously for this species (Tate, 1994; Cohn-Haft, 1999; Lopes & Anjos, 2005). The chick was totally covered by white down, as reported for recently-born youngsters (Cohn-Haft, 1999; Lopes & Anjos, 2005). On few occasions, the adult adjusted its position on the nest, trying to hide the young. As occurred in the previous nesting attempt, no feces or nesting materials were found on the nest or in the tree surroundings.

The last months of the year are usually marked by both high temperatures and precipitation in the study area (Assad, 1994). During this period, artificial lights in the city attract high temperatures and precipitation in the study area (Assad, 1994).

**References**


