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# 19<sup>th</sup> Annual Meeting of the Society for Conservation Biology

## BOOK OF ABSTRACTS



Universidade de Brasília

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**356. BREEDING BIOLOGY OF THE ARARIPE MANAKIN *Antilophia bokermanni* (AVES: PIPRIDAE): SUBSIDIES FOR A CONSERVATION PLAN.** GIRÃO, WEBER; Albano, Ciro; Brito, Paulo; Campos, Alberto; Rêgo, Péricles S.; Araripe, Juliana. AQUASIS - Associação de Pesquisa e Preservação de Ecossistemas Aquáticos, Praia de Iparana s/n, 61600-000, Caucaia, CE, Brazil, biodiversidade@aquasis.org.

The Araripe Manakin is a Critically Endangered bird endemic to the northeastern slope of the Araripe Chapada (plateau), in Ceará State, NE Brazil. As part of an integrated effort to produce a Conservation Plan for this highly endangered species, this work was conducted to determine the main features of its breeding biology. Fourteen nests were found during the breeding season of 2004, between November 2<sup>nd</sup> and December 29<sup>th</sup>. The nests were located above water streams, at approximately 1,00 meter of height, except for one nest, higher than 4,00 meters. Only two of the nests were built on plant species not present in the Manakin's diet. The nest and the eggs are similar to those reported for the Helmeted Manakin (*Antilophia galeata*). The incubation period was determined as 20 to 22 days from egg-laying to hatching. In eight of the nests we found eggs and/or nestlings, and in only one of the nests monitored the chicks managed to attain full development and leave the nest, curiously in the only nest built higher than 4,00 meters. In territories of females that had their eggs predated, recently built nests were found suggesting continuous breeding activity by the same individual.

**725. GENETIC VARIABILITY OF THE ARARIPE MANAKIN *Antilophia bokermanni* (AVES: PIPRIDAE) AND IMPLICATIONS FOR ITS CONSERVATION.** RÊGO, PÉRICLES S.; Araripe, Juliana; Sampaio, Iracilda; Girão, Weber; Albano, Ciro; Brito, Paulo; Campos, Alberto. Laboratório de Genética e Biologia Molecular, Universidade Federal do Pará, Bragança, PA, 68600-000, Brazil, periclesena@yahoo.com.br (PSR, JA, IS). AQUASIS - Associação de Pesquisa e Preservação de Ecossistemas Aquáticos, Praia de Iparana s/n, Caucaia, CE, 61600-000, Brazil (PSR, JA, WG, CA, PB, AC).

The Araripe manakin *Antilophia bokermanni* is a bird species endemic to the Chapada do Araripe (Araripe Plateau, NE Brazil), found only in the gallery forests along the streams in the northeastern slope of the Chapada (Ceará State). It is classified as "Critically Endangered" with a high risk of extinction due to its restricted distribution and small population associated with habitat degradation. Information related to genetic diversity of isolated or small populations have greatly contributed to conservation strategies. In this work we collected tissue samples of 31 individuals distributed along 11 localities within the known range. Three fragments of mitochondrial genes with different evolution rates were sequenced and analyzed. Preliminary results indicate the absence of sub-structures in the population, showing gene flow between sampling stations. However, the genetic variability found in individuals was low. The use of genetic data combined with information regarding the biology of the species and the environment in which it is inserted, should allow the building of a broader scenario, helping decision-making related to the conservation of the species.