

Campo Grande, 08th June 2021

Dear Editor,

I am writing to submit our manuscript entitled, “Medium and large size mammals at the Urucum Massif, Mato Grosso do Sul, Brazil: species richness, relative abundance and activity patterns revealed by camera trapping” for consideration for publication in **Oecologia Australis**.

This study aimed to contribute to the body of knowledge on terrestrial mammalian species occurring at the Urucum Massif (UM), one of the most important areas for Iron and Manganese mining in Brazil, via camera trapping surveys carried out in this region. Moreover, we sought to verify the impact of mining on their activity. Thus, the goal of this study is to estimate species richness (S) of medium to large-sized mammals occurring in the Urucum Massif, as well as to estimate their relative abundance and activity patterns. We found 25 species of medium to large-sized mammals in the Urucum Massif. Of all the species recorded, 28% (n=7) and 12% (n=3) are threatened nationally and globally, respectively. Thus, the present study reported about 80% of the medium to large size mammalian species recorded in a previous study in the Urucum region, just using camera trapping as survey method. Moreover, we found potential impact of mining on collared-peccary activity patterns. Due to the scarcity of protected areas in the UM, we recommend long term mammalian monitoring, besides ecological studies, to support conservation measures for this group in the region.

As the first author, I declare that the manuscript is an original research that it was not published, and at this moment, it is not under consideration for publishing anywhere else. All authors approved the manuscript and its submission, and all authors agree that the article will only be published upon payment of the cost of the manuscript according to the amount indicated on the *Oecologia australis* page.

Thank you for consideration.

All authors sign this letter,

Grasiela E. de Oliveira Porfírio

Grasiela E. de Oliveira Porfírio

William O. de Assis

William Oliveira de Assis

Filipe Santos

Filipe Martins Santos

Leonardo Nascimento

Leonardo Nascimento

Wanessa T. G. Barreto

Wanessa Teixeira Gomes Barreto

Wesley Nantes

Wesley Nantes

Carlos Fonseca

Carlos Fonseca

Heitor

Heitor Miraglia Herrera

Potencial reviewers:

Dr. Nuno Negrões: Asociación Boliviana para la Investigación y Conservación de ecosistemas andino-amazónicos. Email: nunonegroes@gmail.com

MSc. Alfredo Romero-Muñoz: Humboldt University-Berlin, Germany. Email: alfredo.romero@geo.hu-berlin.de

MSc. Marcelle Aiza Tomás: Universidade do norte do Paraná. Email: marcelletomas@gmail.com

Dr. Leonardo Maffei: Wildlife Conservation Society. Email: lmaffei@wcs.org

Dr. Samuel Enrique Astete Perez: Universidade Federal de Goiás. Email: samastete@gmail.com