

Review of: "Listening to the Bats of Carajás: Applied Bioacoustics for Species Inventory and Environmental Use in a Mosaic of Forests, Savannas, and Industrial Mining in the Brazilian Amazonia"

Luciana de Moraes Costa¹

¹ Universidade do Estado do Rio de Janeiro, Brazil

Potential competing interests: No potential competing interests to declare.

The article presents a relevant and necessary study, especially as it provides a bat inventory for Carajás, a high-impact mining area in the Brazilian Amazon.

With over 142,000 minutes of recording and 61 sampling points, this is a well-satisfying level of sampling effort.

The authors were able to identify 43 sonotypes across seven bat families, including species difficult to record with traditional capture methods, demonstrating the effectiveness of the acoustic approach.

Additionally, the article contributes new bat species records for Carajás and highlights differences between environments.

I would also like to highlight the importance of creating a public reference library of bat sounds for the region, which will serve as an essential tool for future studies and environmental licensing processes.

Overall, the article presents solid statistical analyses and makes an important contribution to both bat conservation in the Amazon and the assessment of environmental impacts from mining.