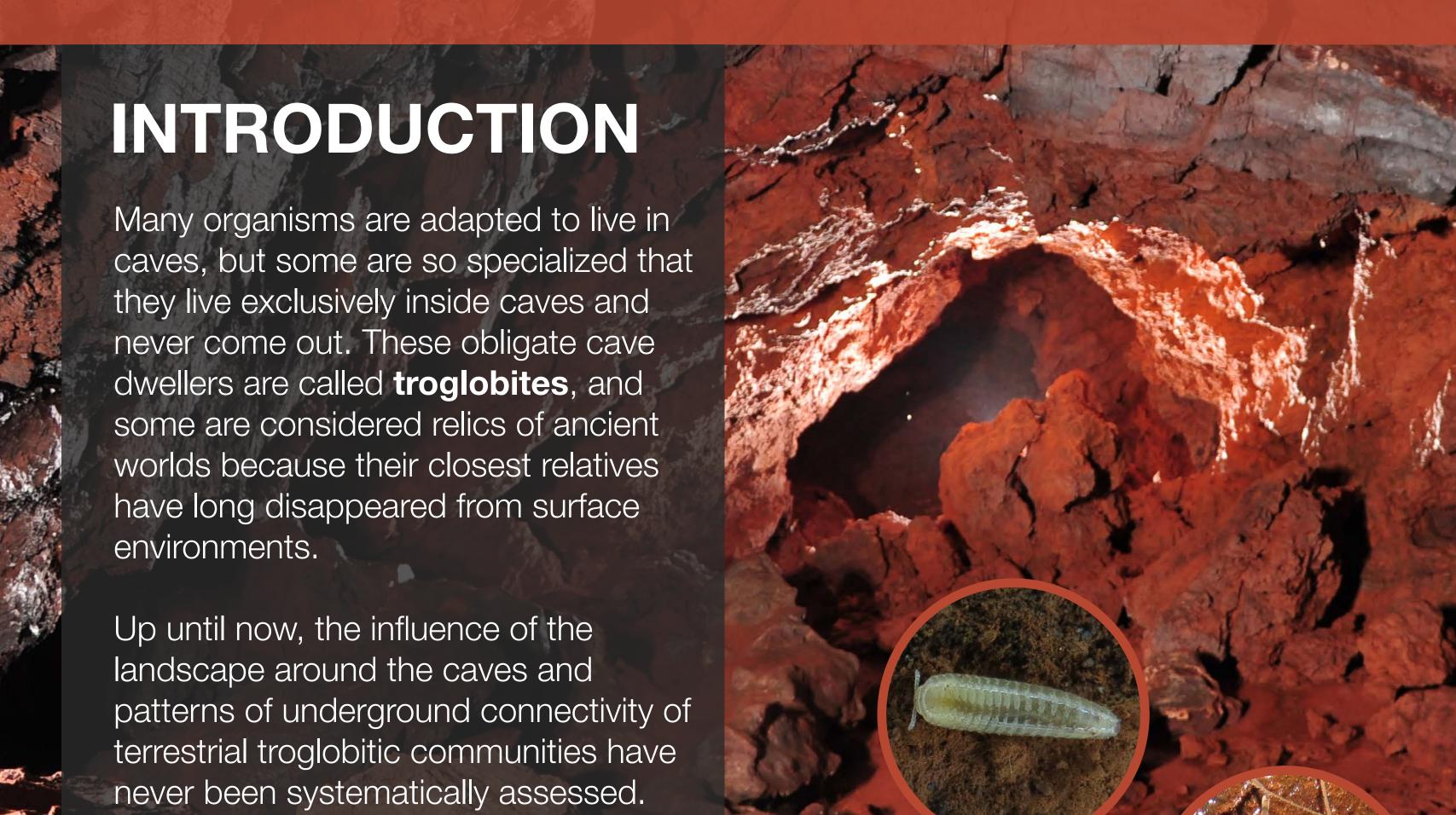
Conserving relics from ancient underground worlds: Assessing the influence of cave and landscape features on obligate iron cave dwellers from the Eastern Amazon



METHODS

We analyzed a large database of species inventories for 473 iron caves in Brazil, evaluating the influence of cave characteristics and the surrounding landscape on the composition and richness of these obligate cave dwellers.



RESULTS

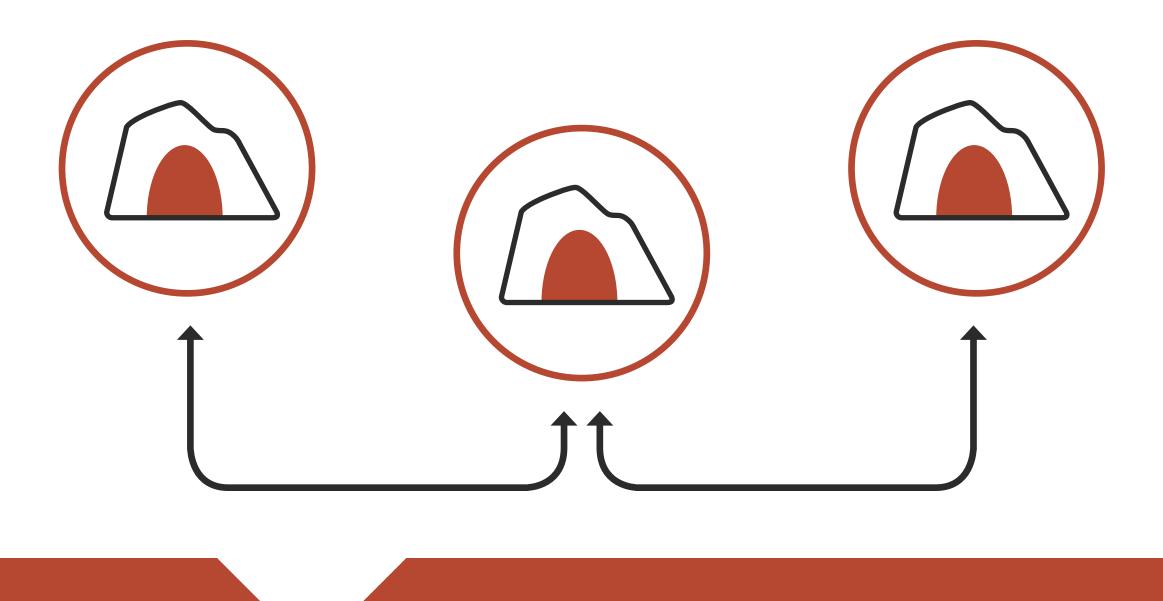
Our results reveal that cave size and the availability of nutrients like guano (bat faeces) are key elements that sustain cave diversity.



Mining affected the composition of species found inside the caves, while agriculture in the caves' close vicinity was associated with low species richness.



Finally, we found that neighboring caves contain a similar species composition, a result that suggests iron caves are somewhat connected underground.



CONCLUSION

Our work indicates that conservation efforts should target subterranean ecosystems as a whole, instead of single caves.



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