

# Implications of modern pollen records on bat guano for palaeoecological studies in southeastern Amazonia

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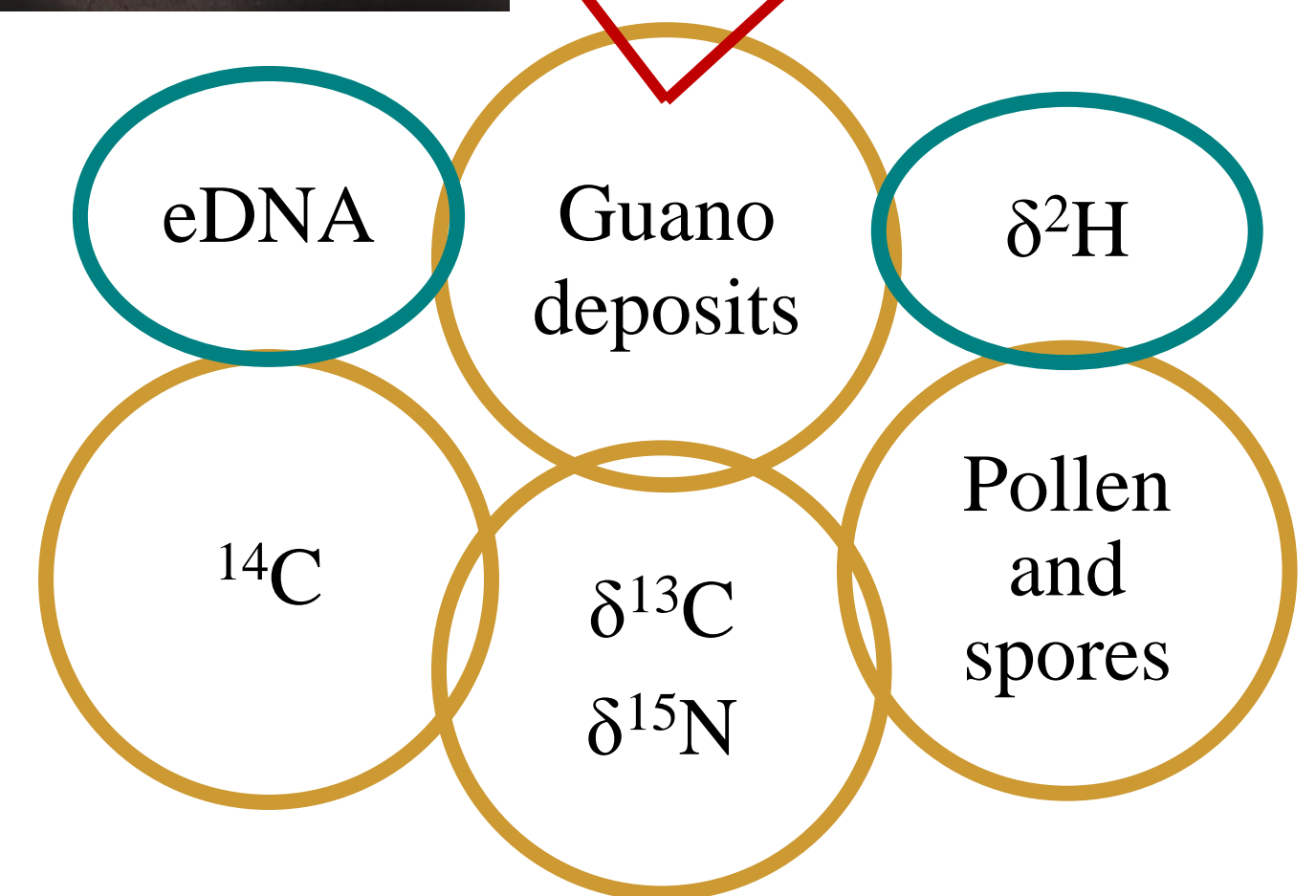
## Ongoing Project

Paleoenvironmental records of guano deposits in Carajás National Forest iron caves (TCCE N° 01/2018 – ICMBio).

## Motivation and question

- 1- To evaluate the potential of bat guano pollen spectra for vegetation reconstruction.
- 2- What were the effects of past environmental and vegetation changes on bat-plant interactions?

## Material and methods



## Study site

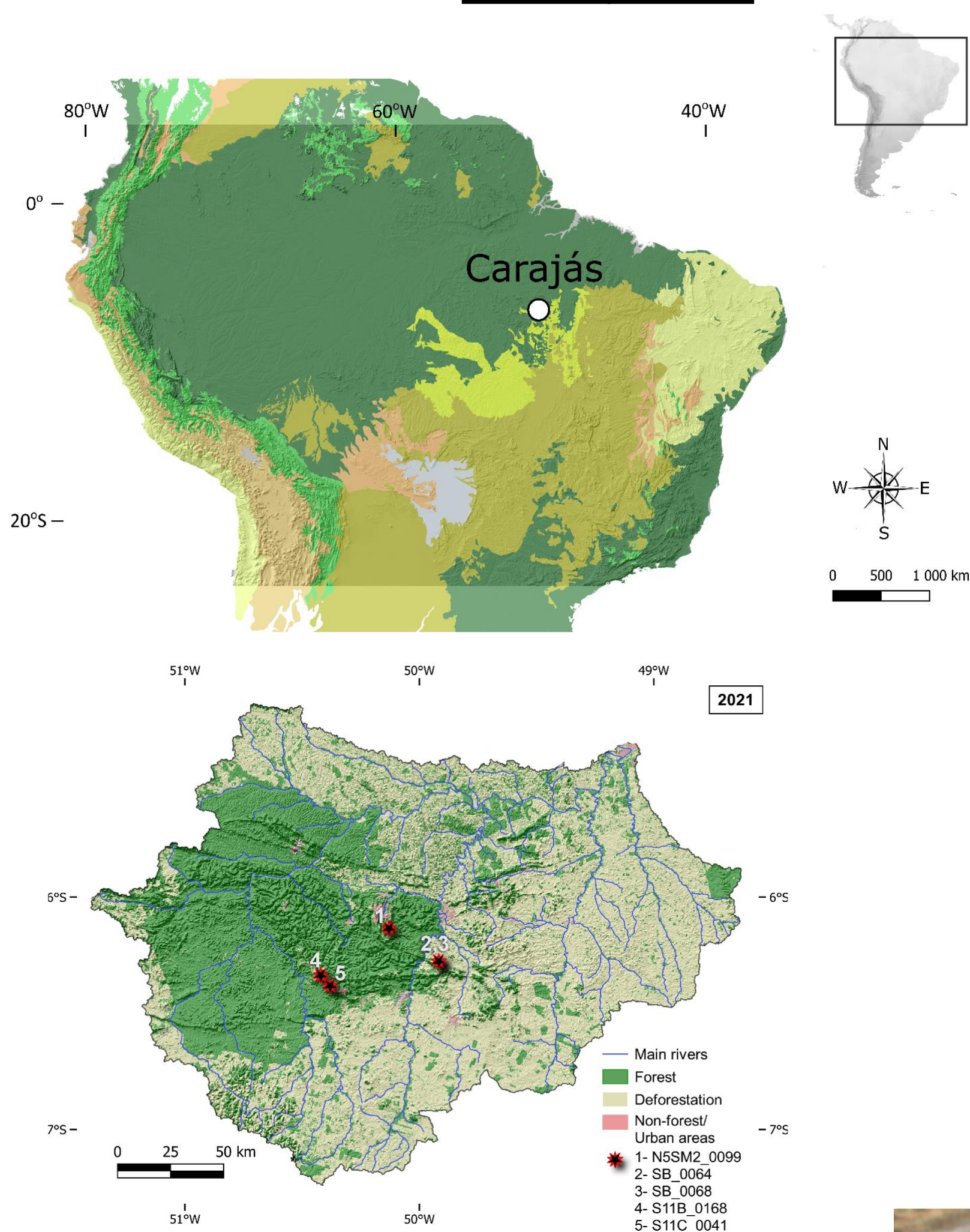
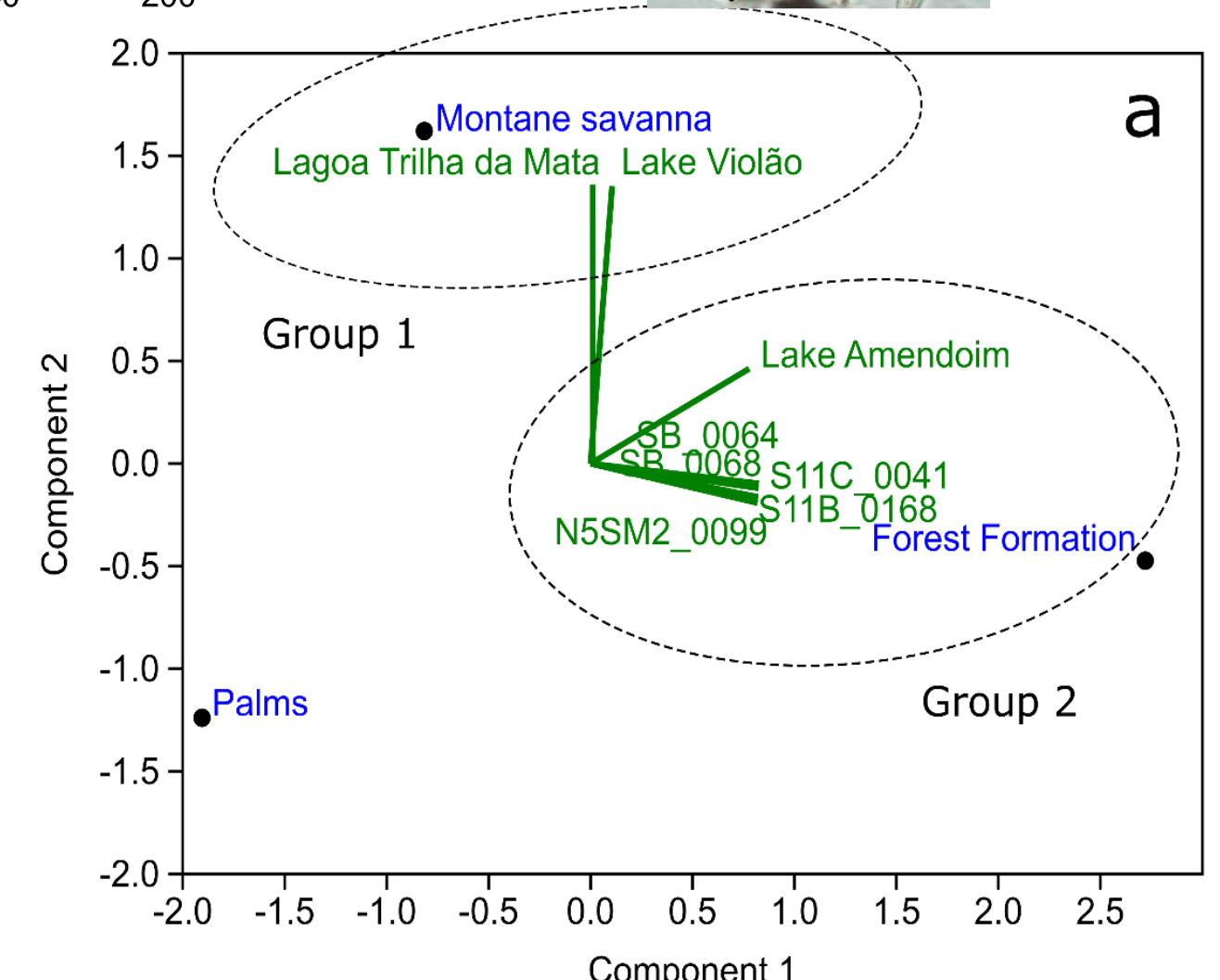
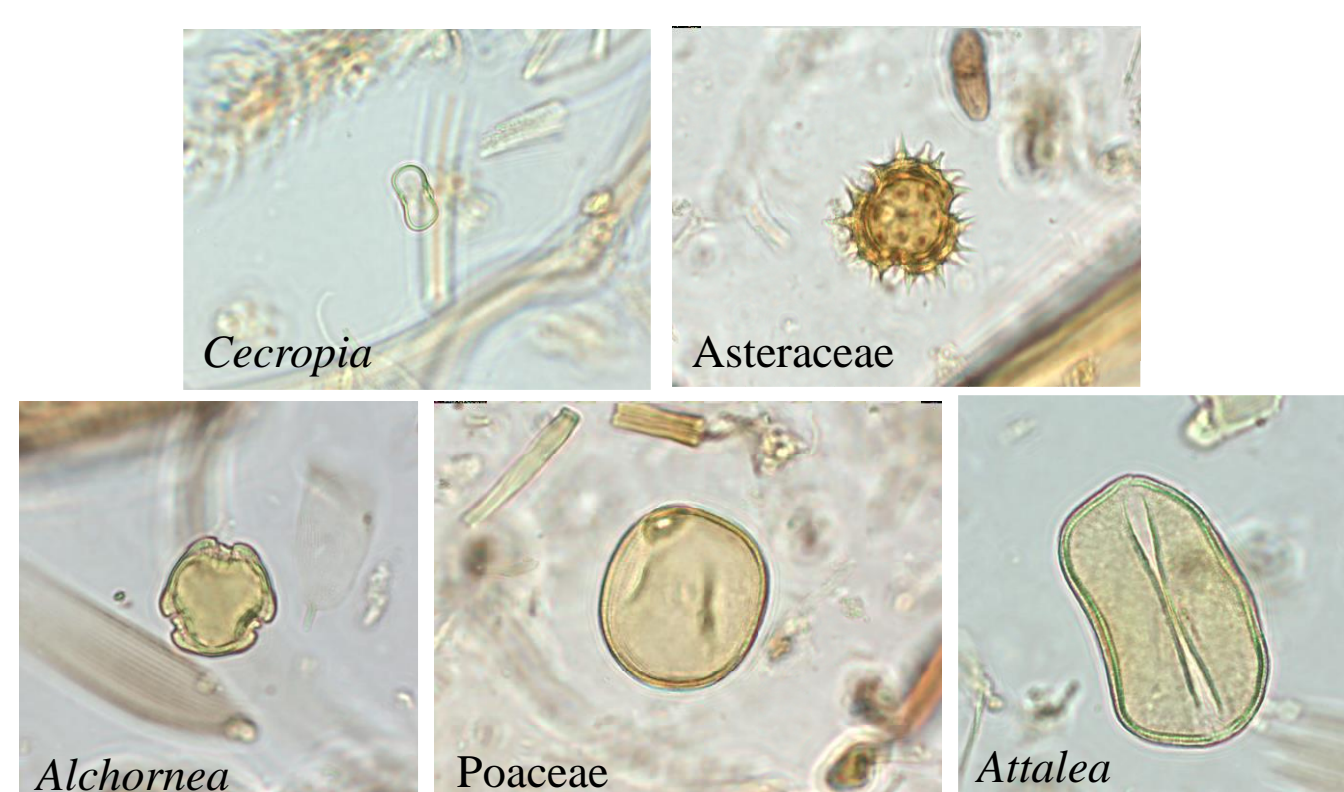
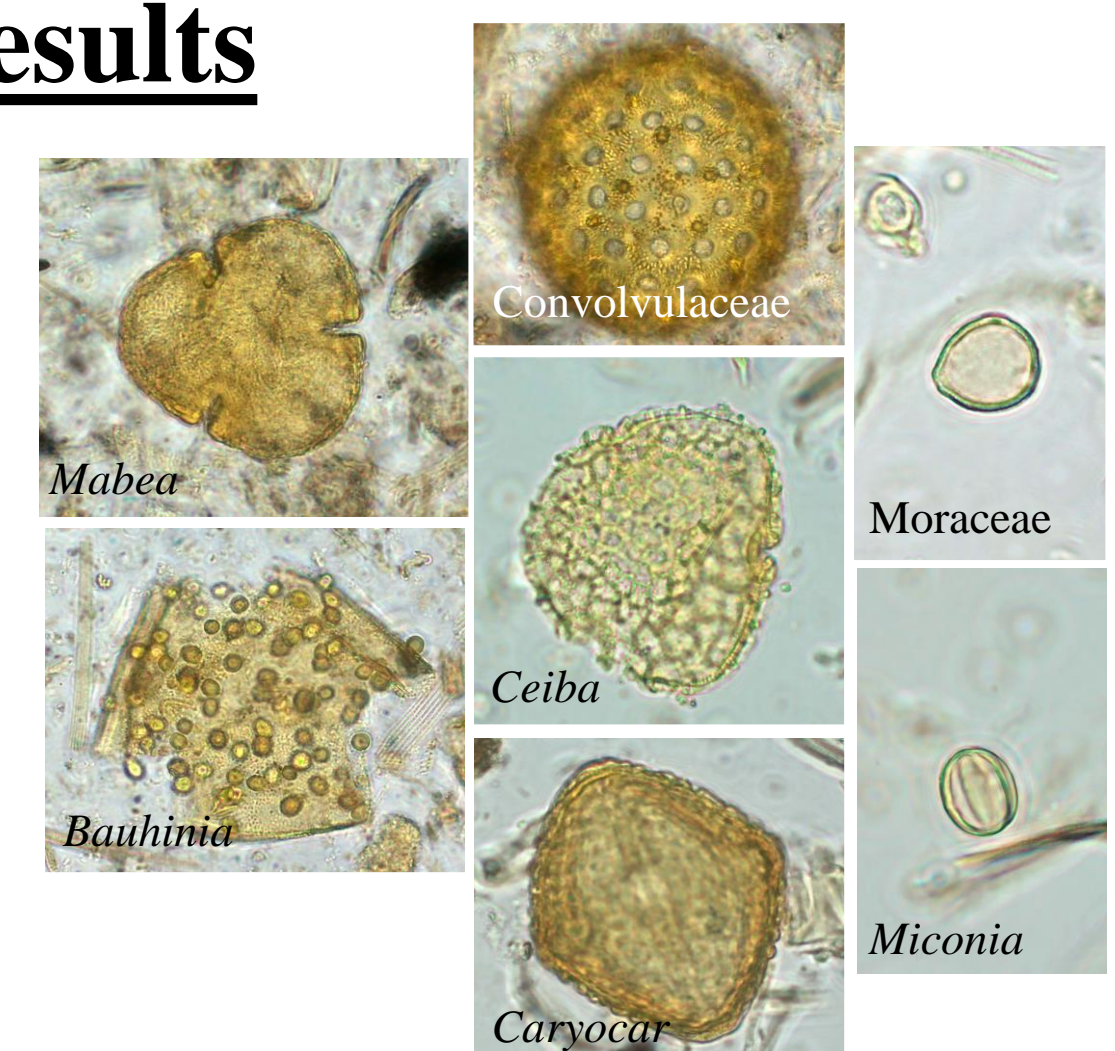
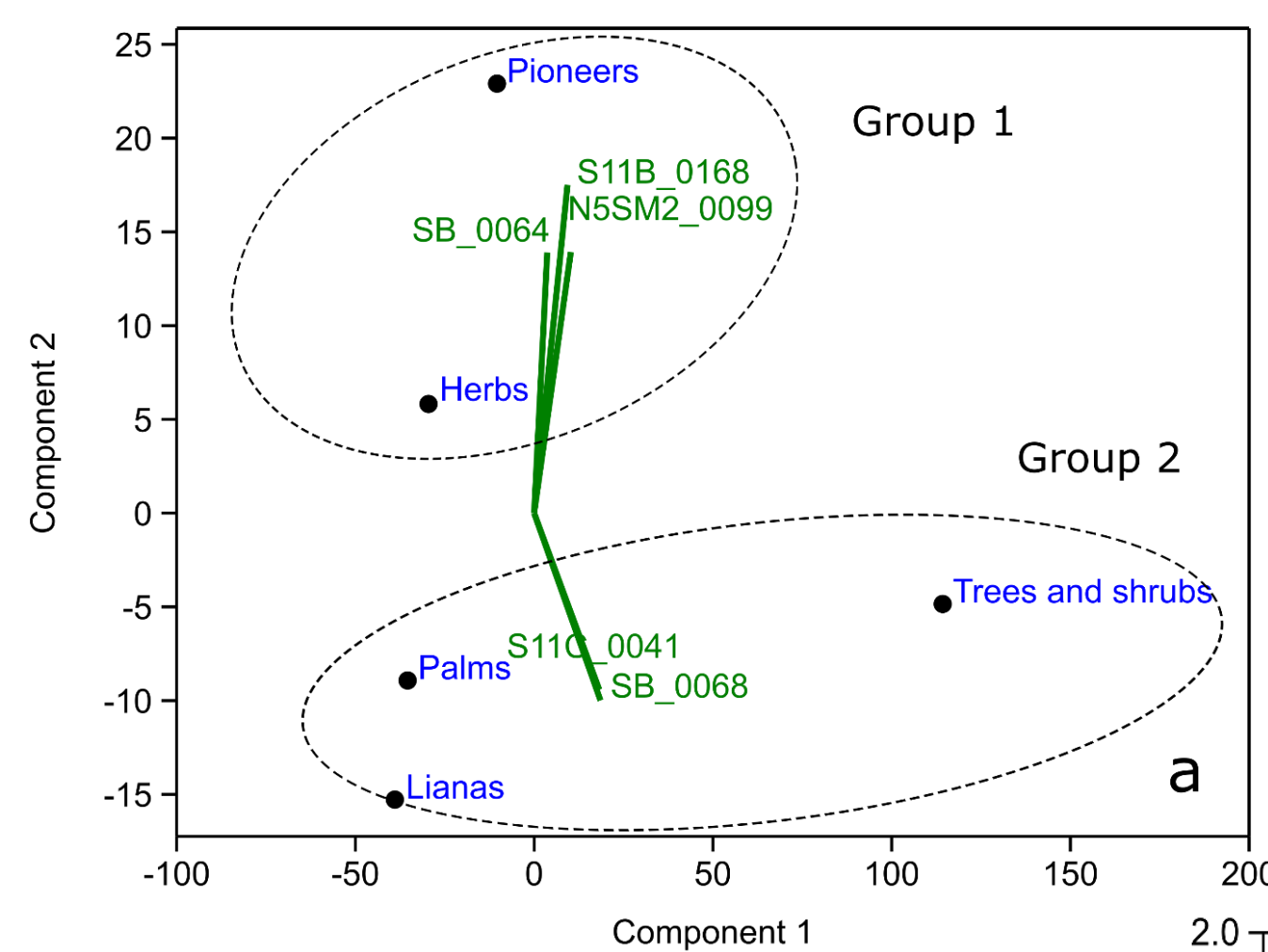


Figure 1: Location of the study caves in Carajás, southeastern Amazonia.

## Results



## Main conclusion

Bat guano deposits are an excellent natural trap for recording the composition and structure of local vegetation and should be used integrated with other natural traps to provide additional information on paleoenvironmental studies.