







37TH GENERAL CONFERENCE OF THE INTERNATIONAL SCIENTIFIC COUNCIL FOR TRYPANOSOMIASIS RESEARCH AND CONTROL (ISCTRC)

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Development of a National Atlas of Tsetse Flies and Animal Trypanosomosis in Cameroon

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Plan

- Background
- Methodology
- Results
- Conclusion

Background

- African Animal Trypanosomosis (AAT) is a major veterinary public health issue.
- Five decades of tsetse and AAT control but no national georeferenced database.
- Lack of consolidated data hindered strategic planning.
- **Aim**: Create the first national atlas of tsetse flies and AAT in Cameroon.





Methodology

- Support: **COMBAT project** (training courses)



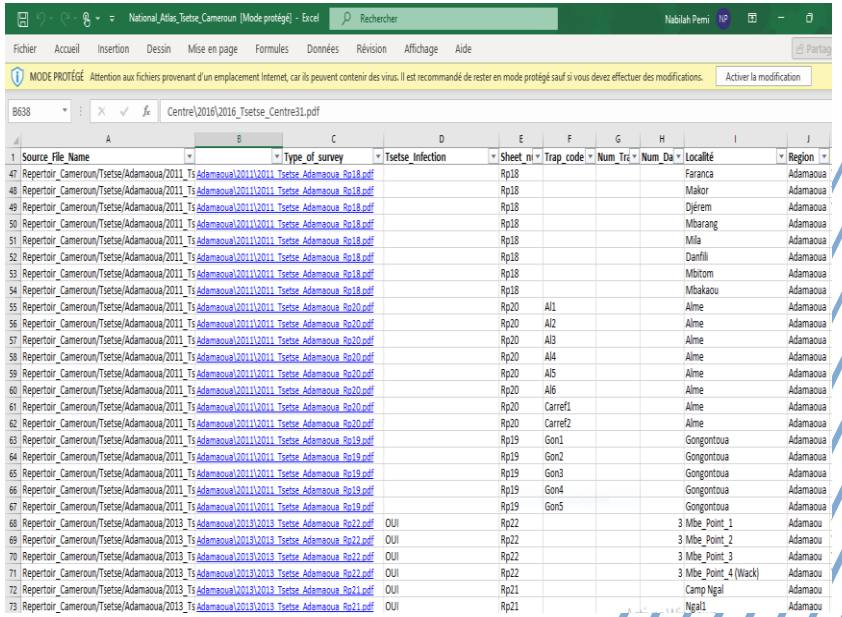
- Epidemiological datas from **2005–2024**

Data source

- entomological and parasitological surveys
- MSEG and MINEPIA reports
- Article and thesis

Structure of the atlas

. Data repository and Database
- Mapping and analysis with GIS tools.



National_Atlas_Tsetse_Cameroun [Mode protégé] - Excel — Rechercher — Nabilah Perni

Fichier Accueil Insertion Dessin Mise en page Formules Données Révision Affichage Aide

MODE PROTÉGÉ Attention aux fichiers provenant d'un emplacement Internet, car ils peuvent contenir des virus. Il est recommandé de rester en mode protégé sauf si vous devez effectuer des modifications. Activer la modification

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Results

1. Mapping & Coverage

- 830 study sites georeferenced across Cameroon.
- National atlas covers **5 regions** (Far-North, North, Adamawa, Est, Centre) with georeferenced data.

The 05 others regions will be consolidate

Results

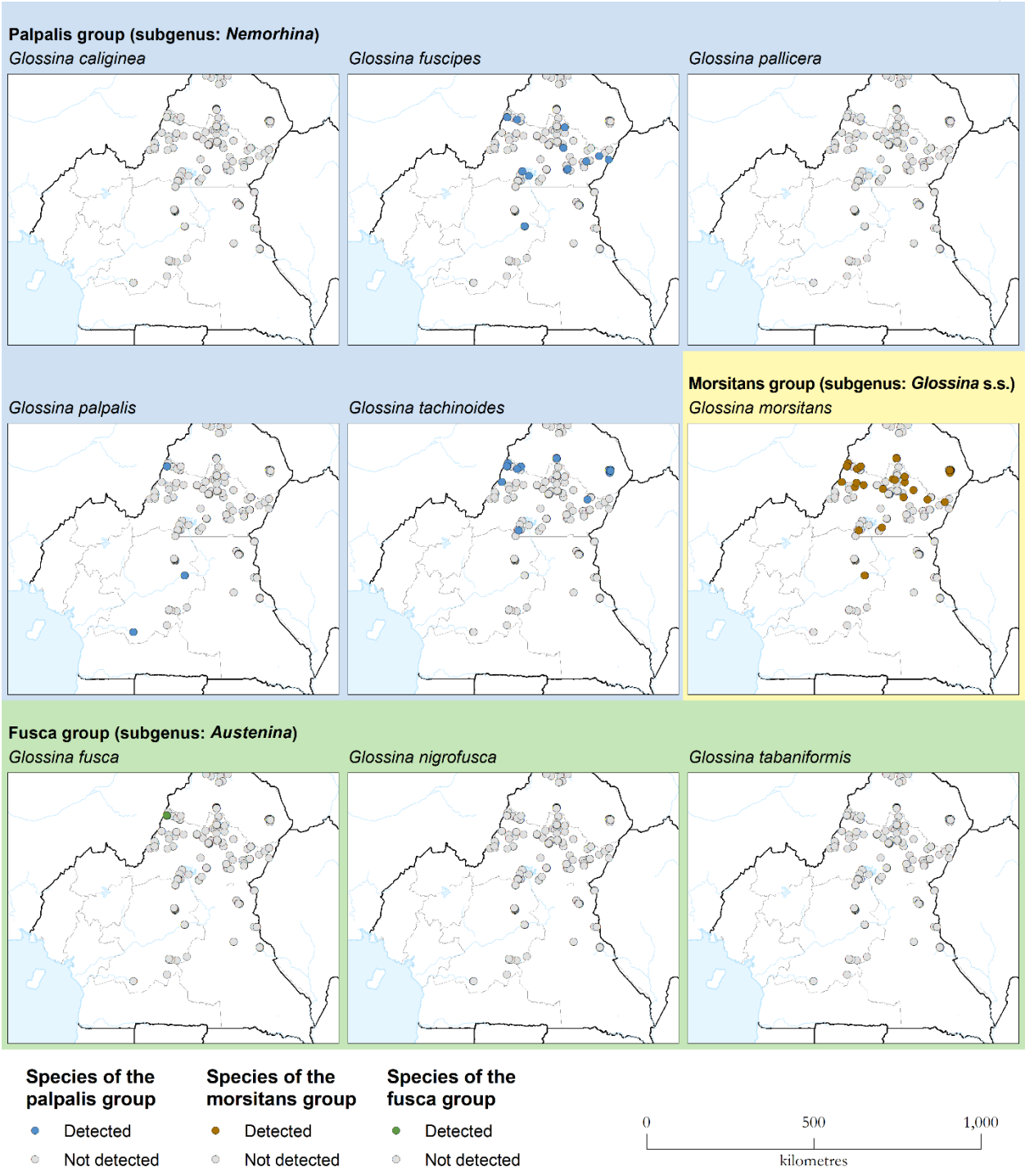
2. Entomological Findings

Seven Glossina species identified.

- ***Glossina tachinoides*** most prevalent (51.2%), mainly in Adamawa and North.
- ***G. morsitans submorsitans*** (11.3%) Adamawa, North and Centre

- *G. palpalis palpalis* (1.0%), *G. fuscipes fuscipes* (0.8%), *G. fusca congolensis* (0.6%), *G. fusca fusca* (0.4%), *G. longipalpis* (0.1%).

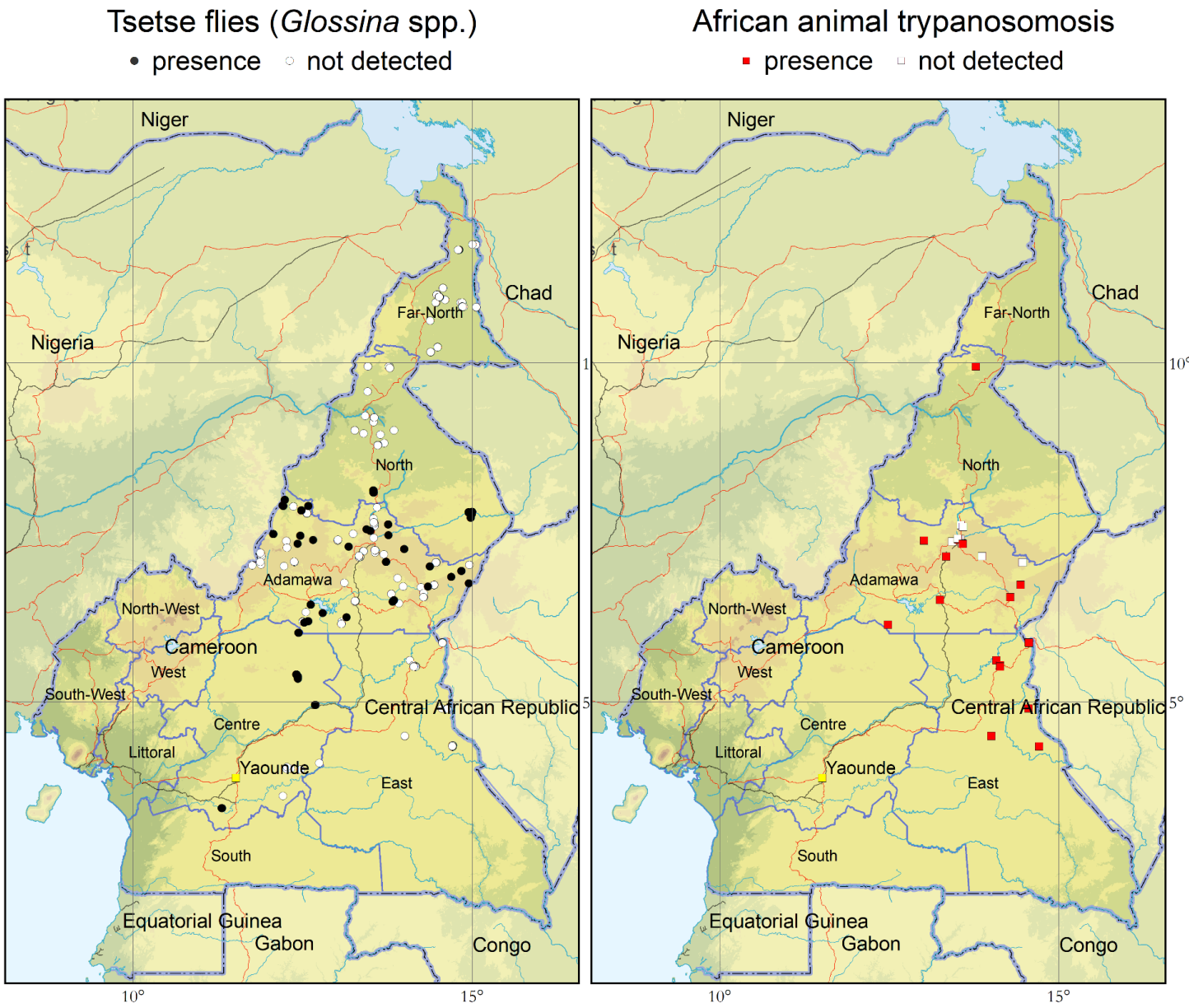
- **31.3%** identified only to genus level.



Results

Parasitological Findings

- 1,519 cattle sampled across 33 localities.
- Overall infection prevalence: 23.2%.
- ***T. congolense***: ***77.6%***; *T. vivax*: 12.7%; *T. brucei*: 9.6%.



Conclusion

- **First national reference** for tsetse and AAT distribution in Cameroon.
- Strengthens surveillance and strategic planning.
- Supports Progressive Control Pathway (PCP) for AAT control.
- National atlas is a milestone for Cameroon’s tsetse and AAT control.
- Provides foundation for evidence-based decision making.
- Calls for sustained data collection and regional collaboration.

Conclusion

Limitations

- Uneven geographic coverage (NW, SW, West, SOUTH, LT).
- Some specimens only identified to genus level.
- Need for continuous data updating and expansion.

THANK YOU FOR YOUR KIND ATTENTION

COMBAT

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