

Ichthyoparasitological symposium 2024

Monogeneans from the Gills of Catfishes in the Democratic Republic of the Congo: Diversity and Their use as an Indicator of Host Biogeography

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Four parts

1

Introduction

Why catfishes?



2

Materials & Methods

❖ Where? & How?



3

Selected Results & Discussion

Which species?



4

Conclusion

What do we think?

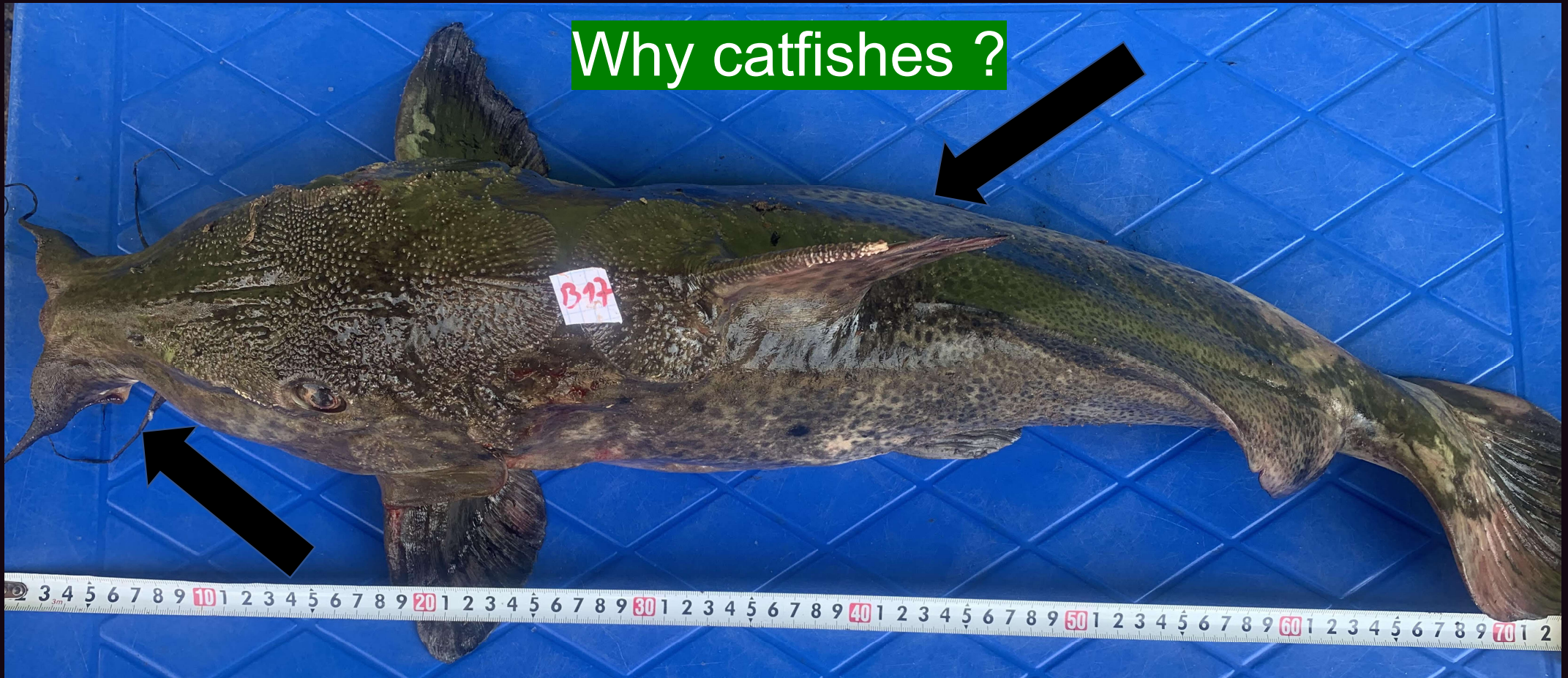


1

Introduction

1

Why catfishes ?



1

1. aquaculture

a. Growth rate

b. Adaptability

c. Fast maturity & High fecundity

1

2. Biogeography studies in Africa

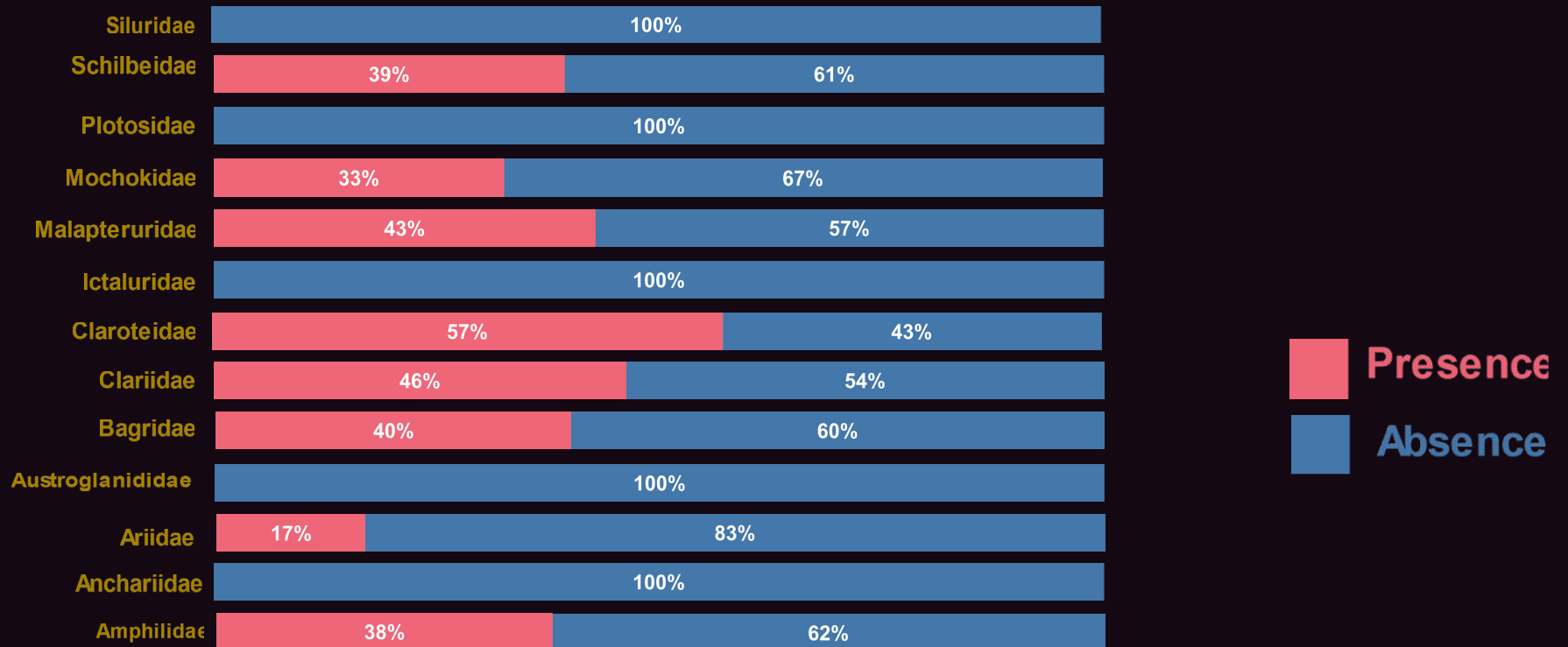
a. Diverse distribution

b. Adaptability & Habitat preferences

c. Historical connectivity and Isolation

1

Endemism rate of catfishes in the DRC

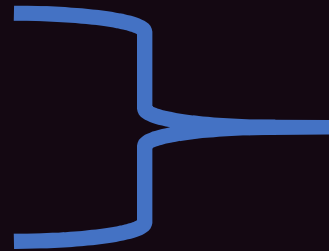


Known in the DRC before

Macrogyrodactylus Congolensis

&

Macrogyrodactylus karibae



Clarias gariepinus

2

Materials & Methods

2



Experimental fishing

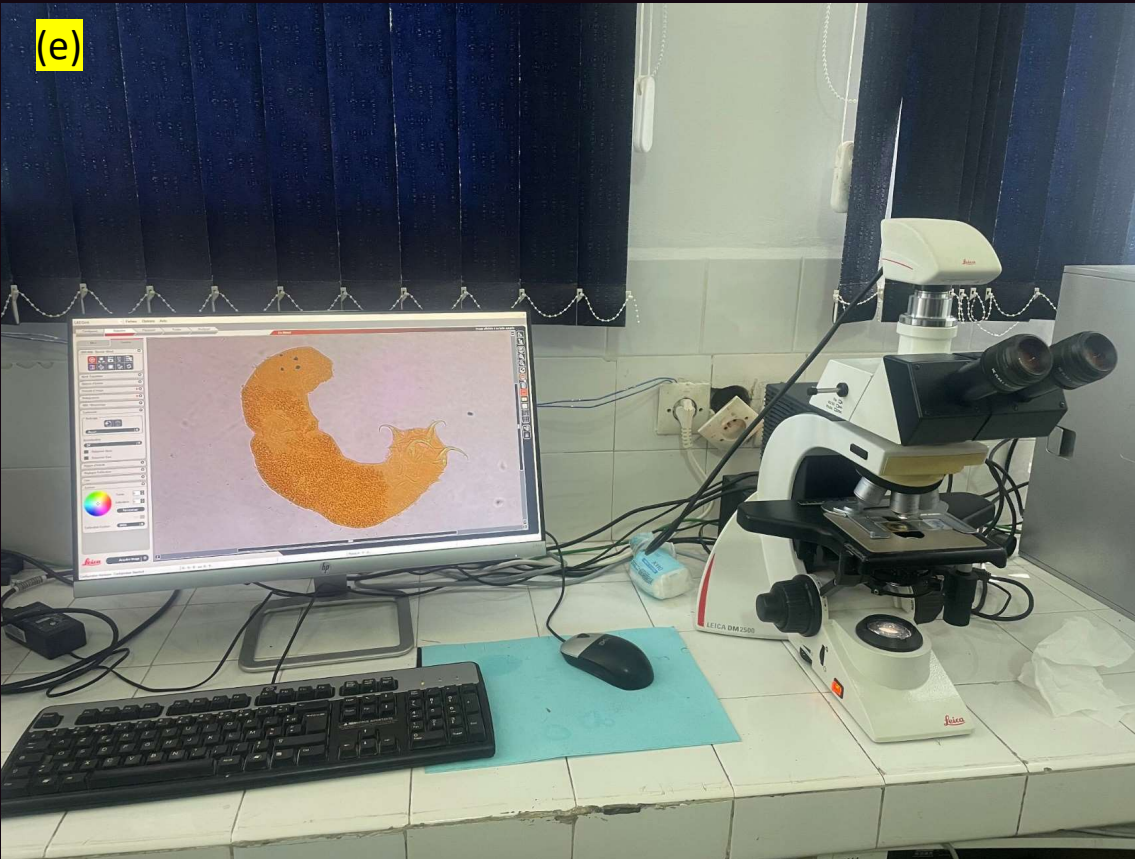
Markets

Collections

2

Parasite identification

(e)



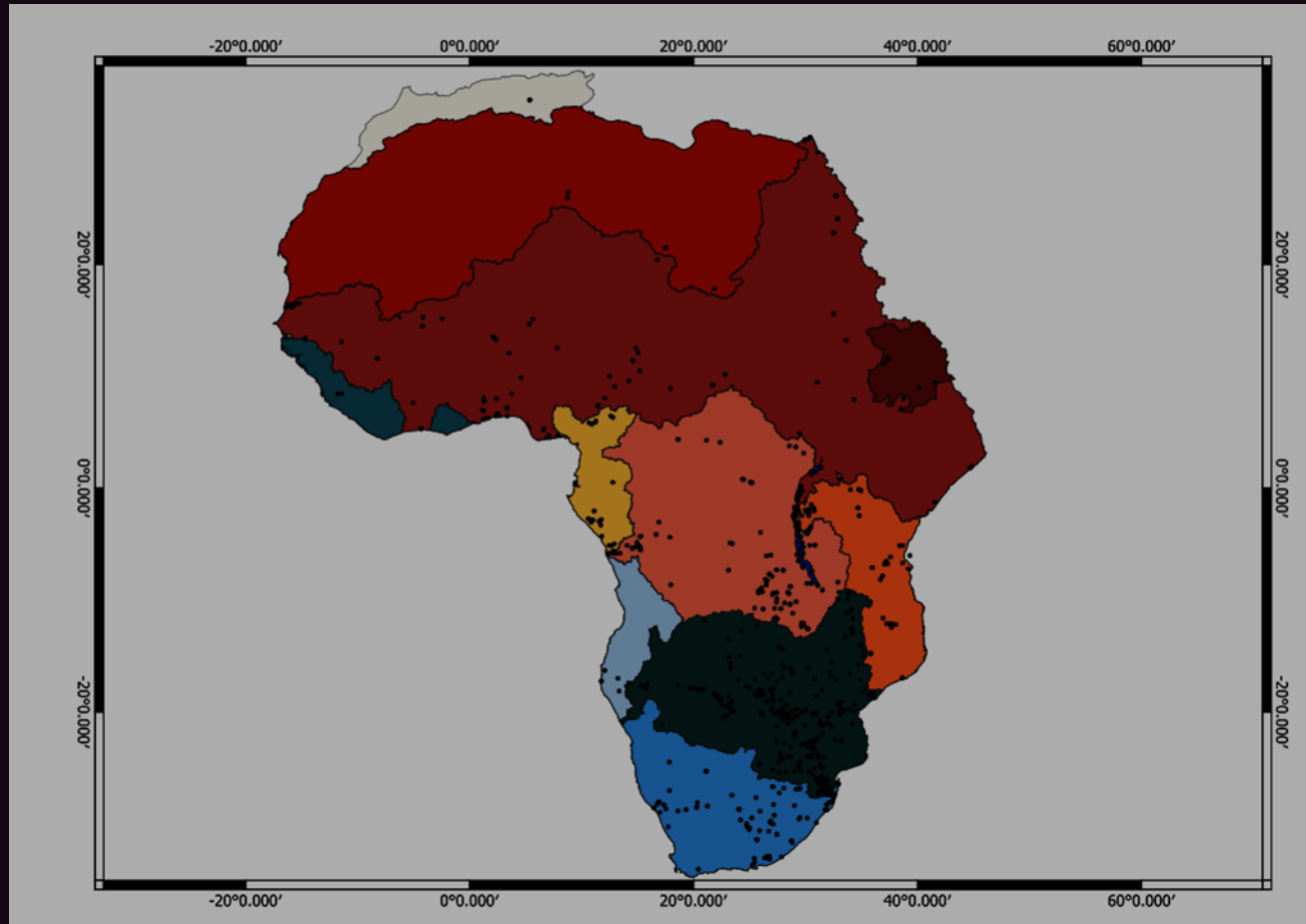
(f)



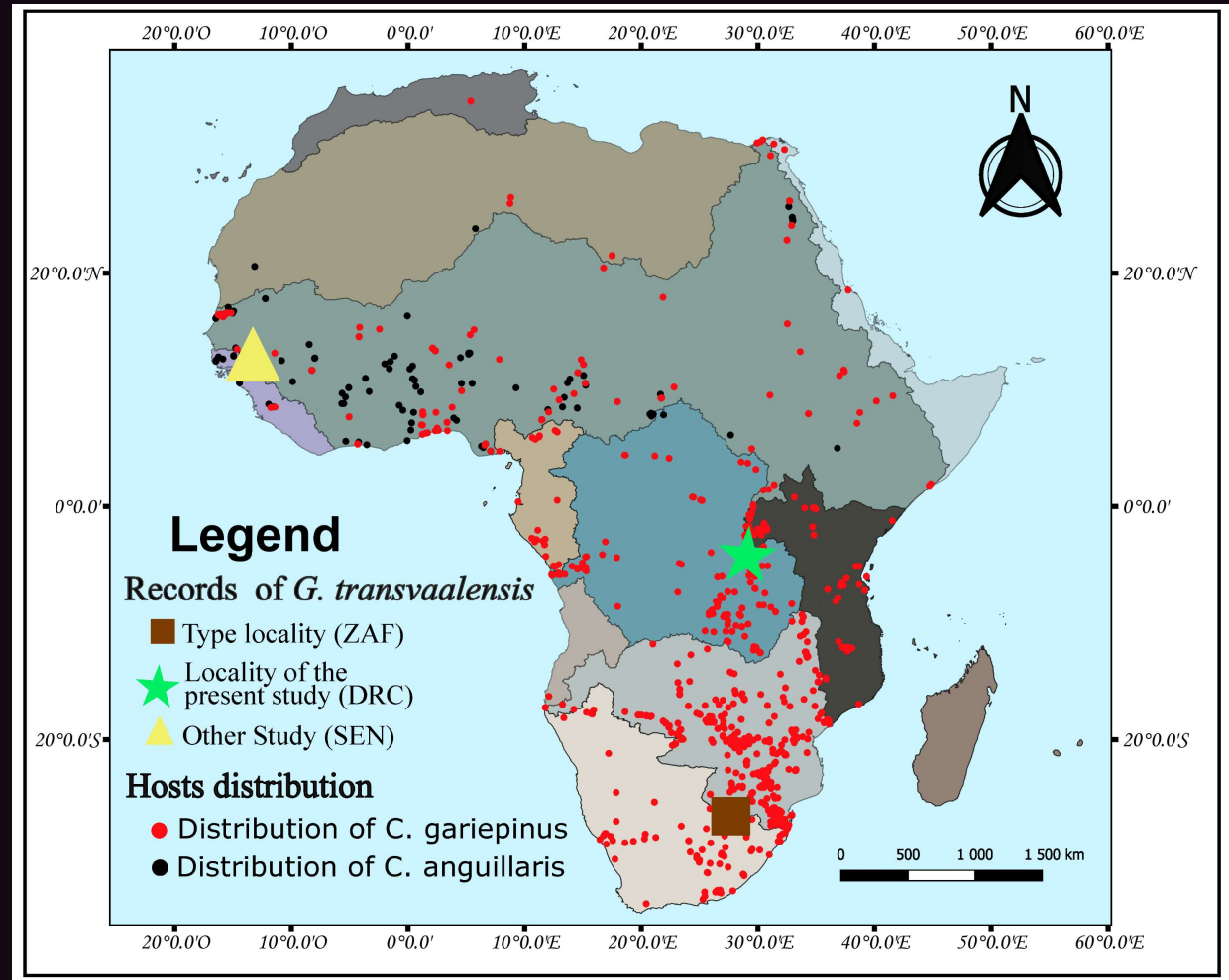
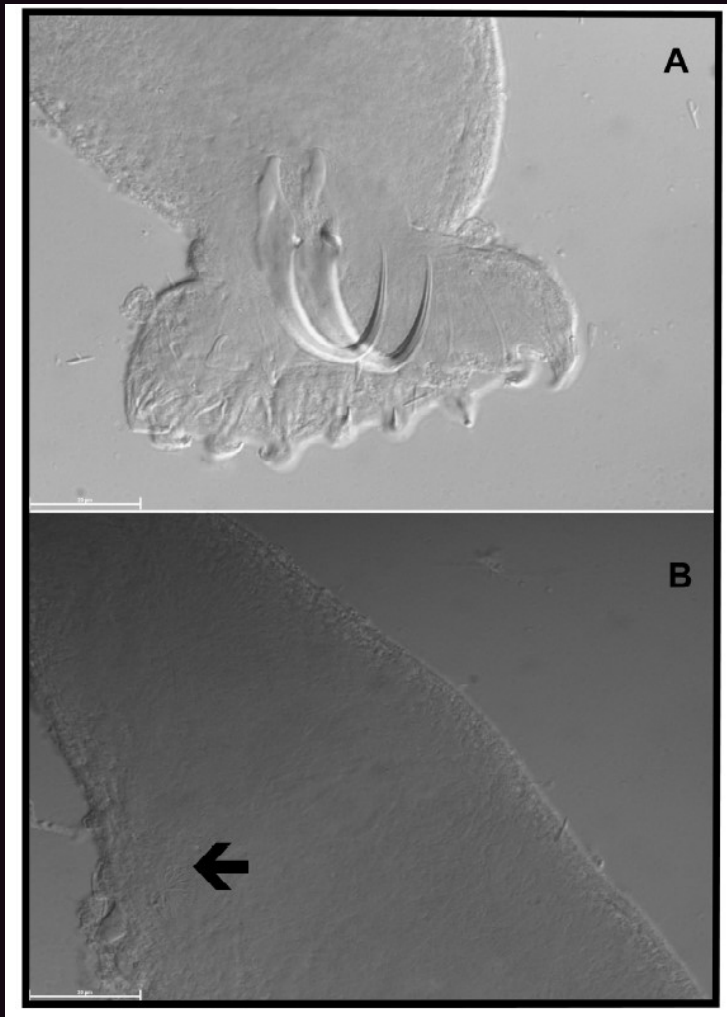
3

Selected Results

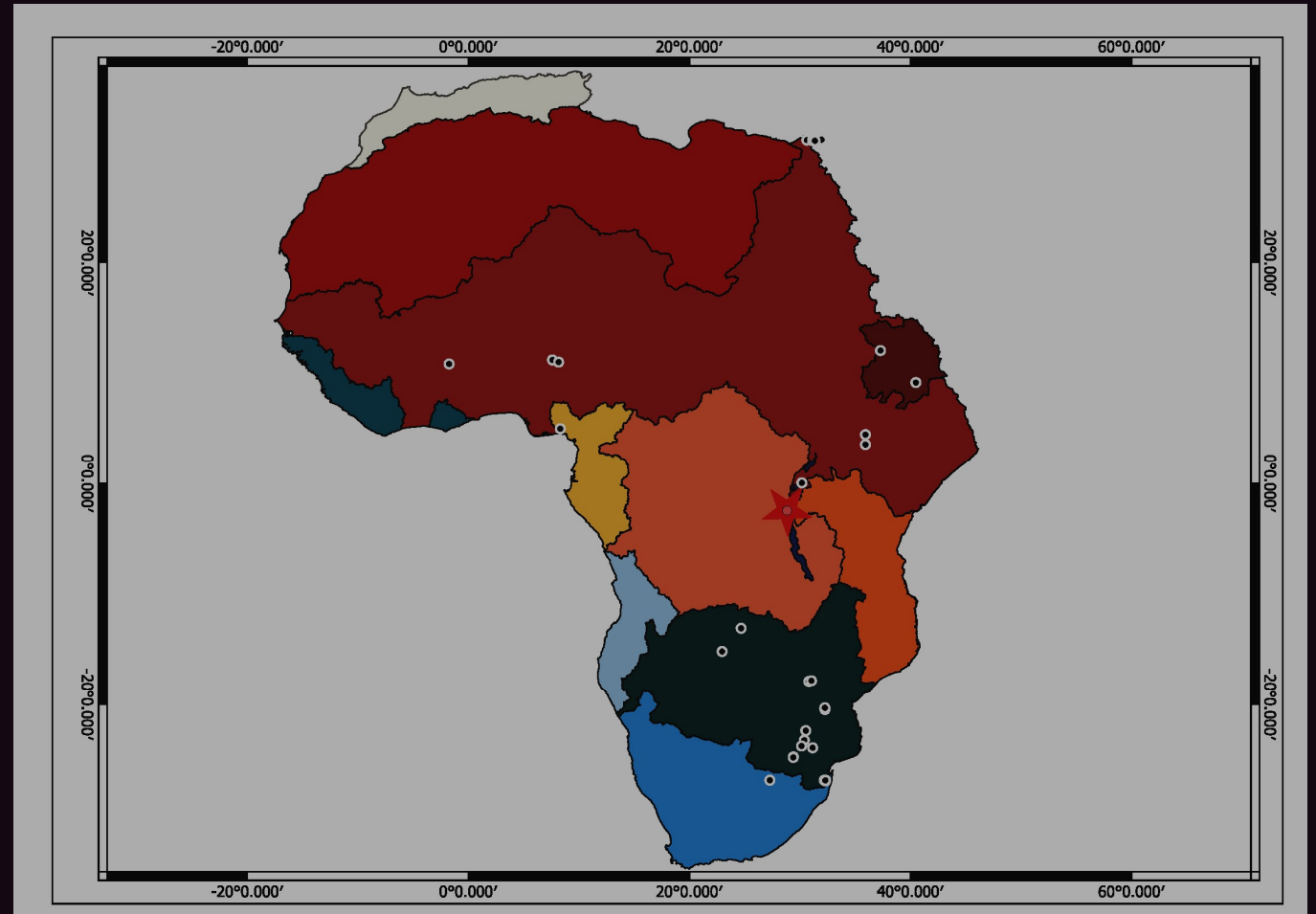
A. *Clarias gariepinus*



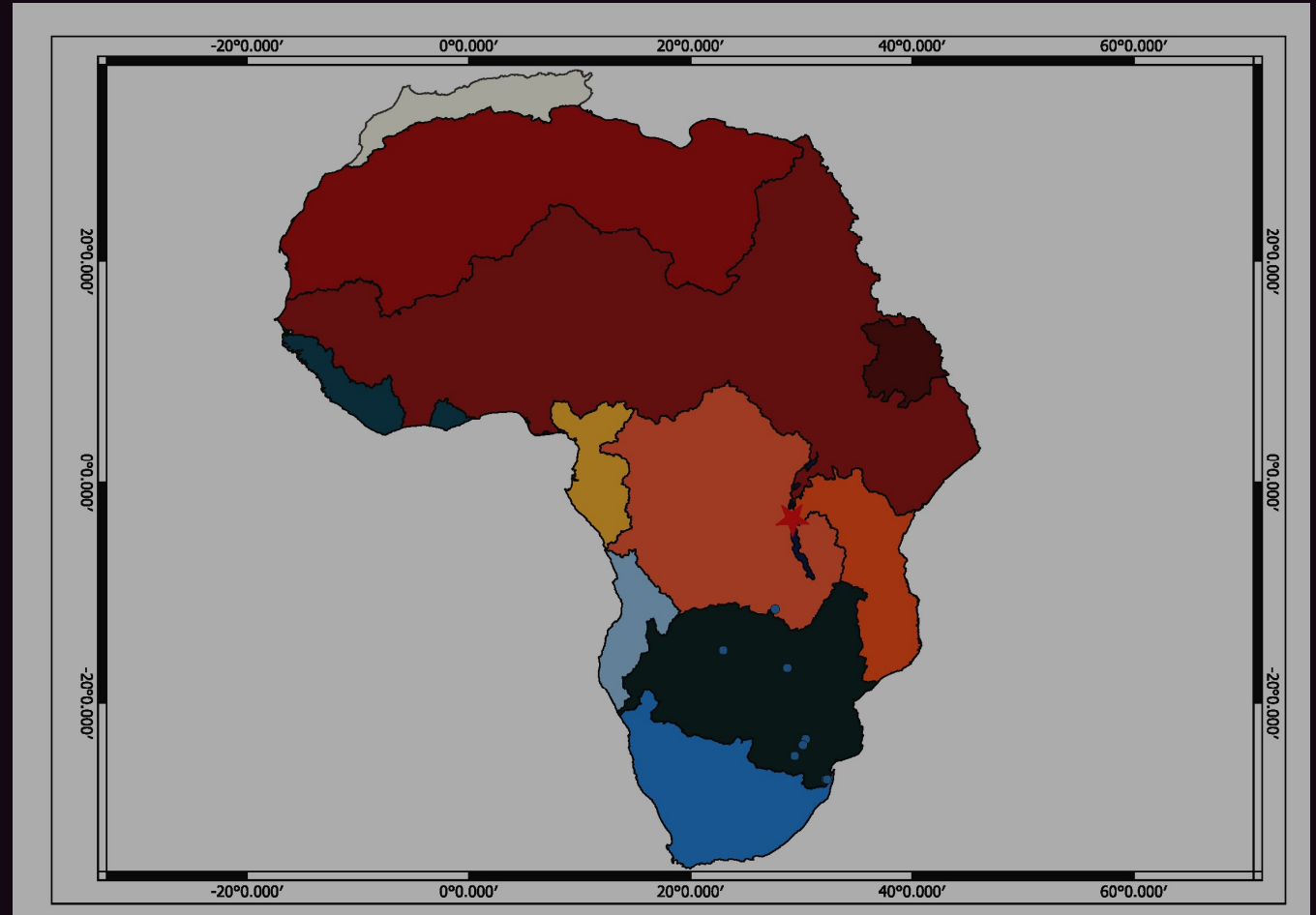
Gyrodactylus transvaalensis



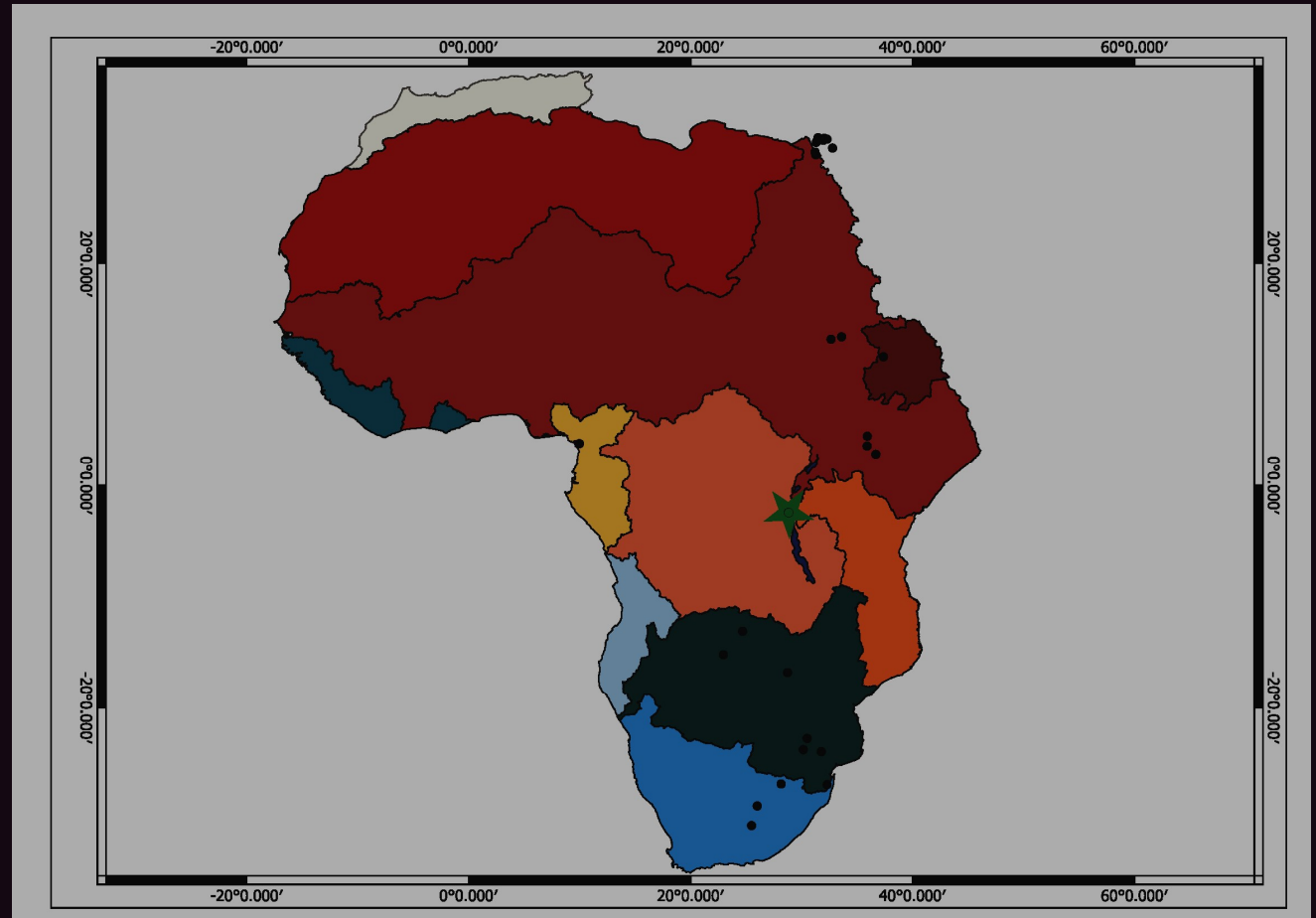
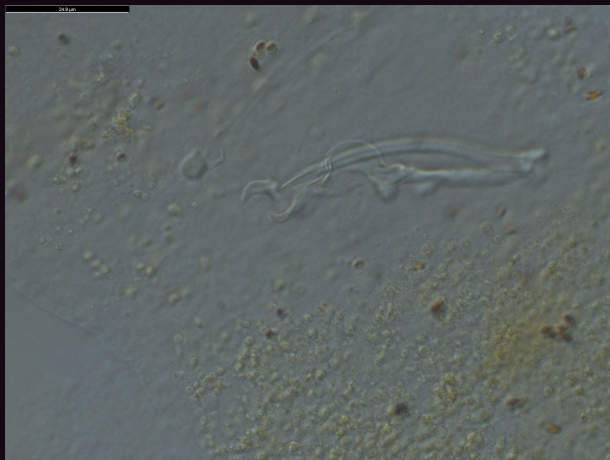
Macrogyrodactylus clarii



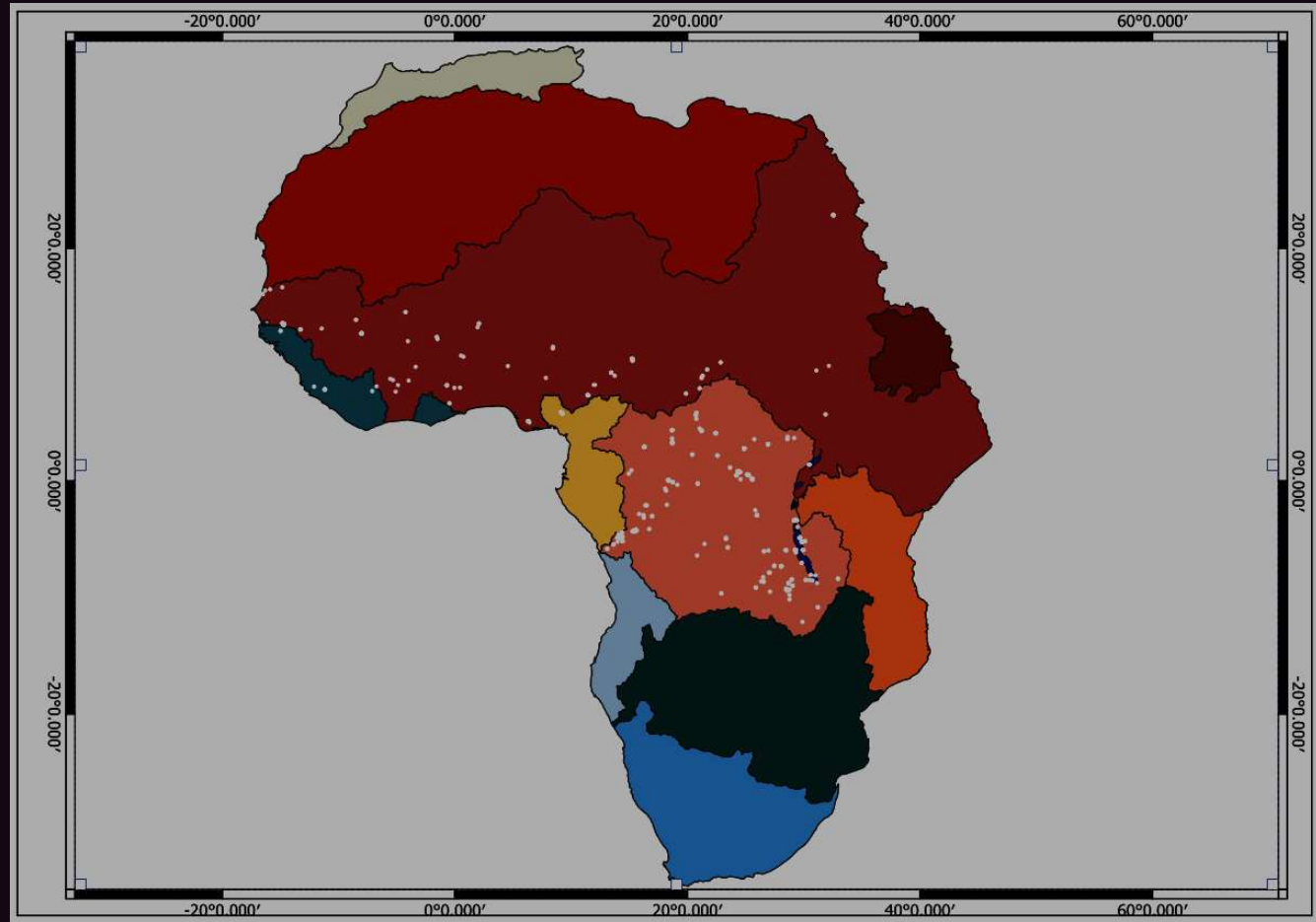
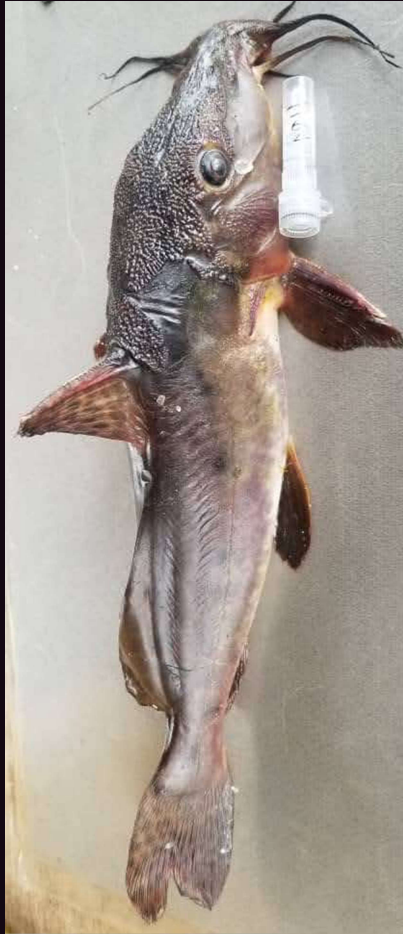
Macrogyroductylus karibae



Quadriacanthus aegypticus



B. *Auchenoglanis occidentalis*



Bagrobdella vanhovei



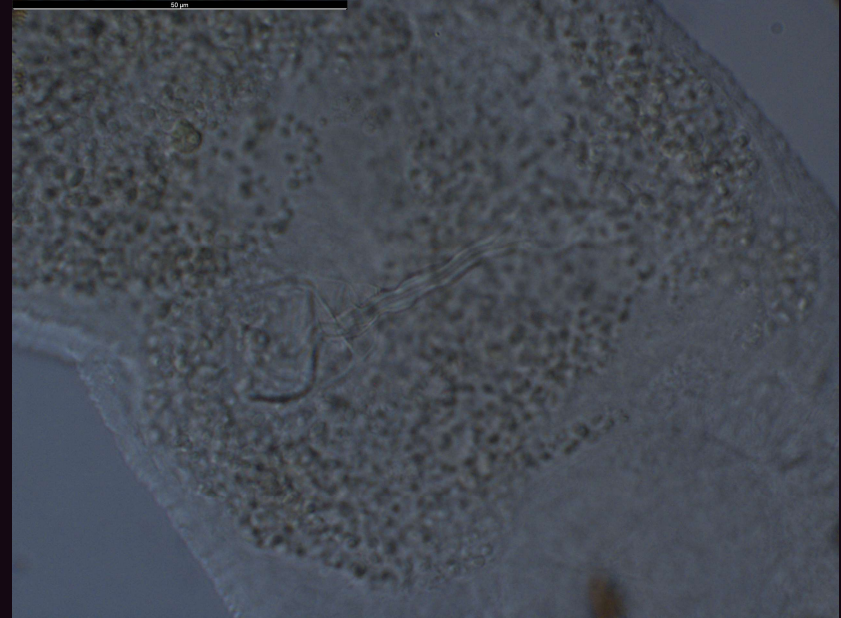
Bagrobdella vansteenbergei



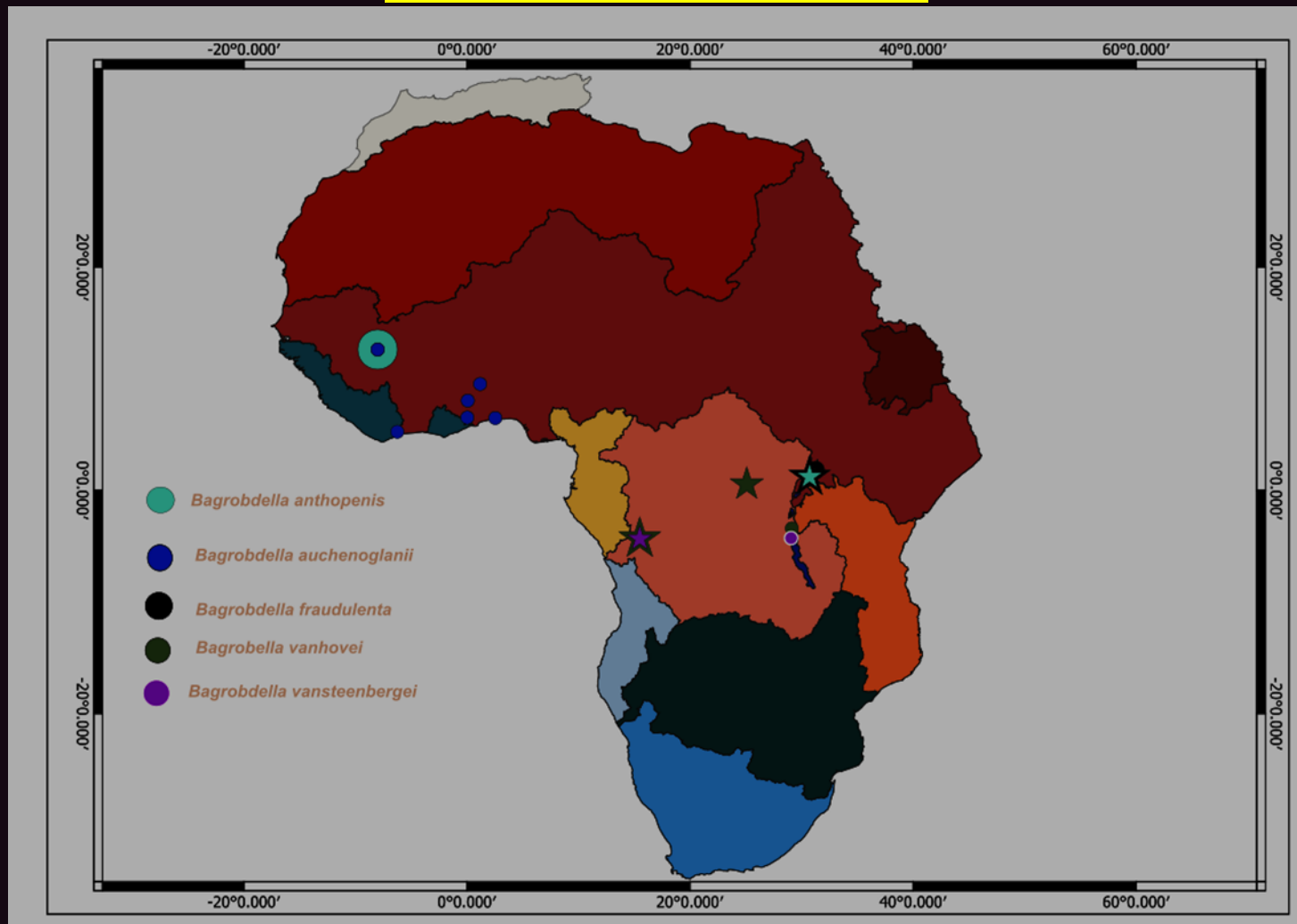
Bagrobdella fraudulenta



Bagrobdella anthopenis



Bagrobdella spp



4

Conclusion

Known in the DRC

Macrogyrodactylus Congolensis

Macrogyrodactylus karibae

Gyrodactylus transvaalensis

Quadriacanthus aegypticus

Clarias gariepinus

Homogenous pan-African
monogenean fauna

Bagrobdella vanhovei

Bagrobdella vansteenbergei

Bagrobdella fraudulenta

Bagrobdella anthopenis

Bagrobdella: marker for
Auchenoglanis occidentalis
at the scale of ichthyofaunal
provinces

Thank you for your attention