Geneva forum 2018 On the tetra's trail!

Objectif Sciences International 12th Dec. 2018







François Lambert French participant

Mobile: 07 68 03 58 89

E-mail: françoislambert50@gmail.com



Summary

I/ General setting of the research

II/ Our protocol and equipement

III/ What to improve

IV/ Research perspectives









I/ General setting of the research

- What was the project?
- ✓ Studying *Astyanax mexicanus, blind* fish that have two morphotypes.





✓ We were in partnership with the CNRS. This partnership wasn't just symbolic, insofar as our actions were supervised by Stephane, an engineer who studied Astyanax for 3 years now



II/ Our protocol and equipement

- How did we proceed?
- ✓ We caught around 200 of them in mexican caves and rivers, after what we freed them in their living place





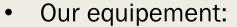
✓ We also studied their environnement, by analysing the water, the mud and the air of each catching place. That was our evening ritual



✓ Results of our studies are used by the CNRS so as to understand the environnement and the genetic evolution of Astyanax populations







-speleology equipement -masks for sanitory reasons



✓ Specific for the environnement's tests:

-calibrated pipettes

-containers for samples

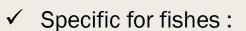
-photometers to measure alkalinity,

ammonium and phosphates

-colorimeters to measure nitrates, nitrites,

etc... (at home)

-combo Hanna (pH meters)



-nets and buckets

-aquarium with a ruler

-Plexiglas plate and cloth

-scalpel blade, tweezers and lighter

-plastic boxes with numbered tubes

(containing alcohol)

-camera











III/ What to improve and aim for the future of the project

✓ Even if there was a very appreciable organisation, an important improvement could be to emphasise our link with the mexican people





✓ We could then improve our partnership with mexican scientists like Patricia Ornela Garcia and Luis Espinas



« How improbable is the fact that I'm here, studying blinded fishes »

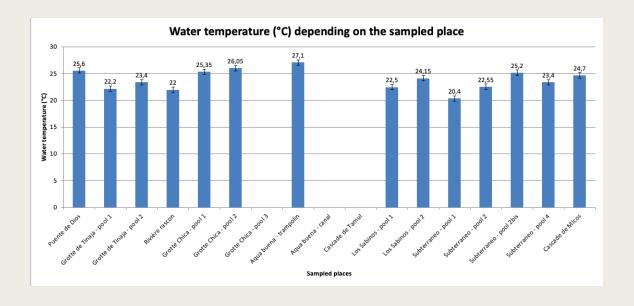
The thought each of us had when we arrived

✓ We could really improve the way we were fishing...







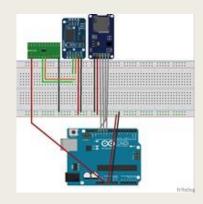




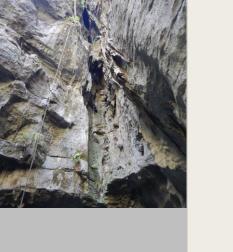
IV/ Research perspectives

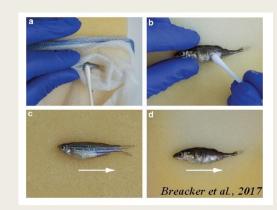
✓ Other measures will be taken by OSI, whithin the context of the programme « puces sur le terrain ». More, some probes will be laid in mexican caves, to study the environnement on a long period





✓ It's important for us to improve the way we collect our results. Our point is the well-being of fishes. As such, we're trying to establish catching protocoles that are less and less stressful for them





« Wow... I'd really like to go back there... »

The thought I had when searching for photos for the slide show

