

Microtomographic investigation of a large corpus of cichlids

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Abstract

A large corpus of fishes spanning a size range of 6 to 20 cm was nondestructively assessed using micro-computed tomography.

Introduction

History

- Cichlids from Lake Victoria
- Sample 'library' of EAWAG
- Valuable, hence non-destructive imaging is *paramount*

microCT

- Nondestructive imaging of a diverse kind of samples
- Ideal method to provide insight into *these* samples

Materials and Methods

Preparation of fishes

- Collection
- Storage in 75% Ethanol.

microCT imaging

- Scanned on the 1272 (some fishes) and the 2214 (most of the fishes)

Data analysis

Preparation for analysis

- Python code in Jupyter, which is freely available: <https://github.com/habi/eawag>
- Automatic dissemination/copying of data to the relevant

Extraction of OJ and PJ

- Details needed from Mikki on how she did it exactly

Results

- A lot of fishes
- A lot of scans
- A lot of data

Discussion

The discussion of the results and the outlook to what we'll do in the future is going into this file here.

Acknowledgments

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References

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