

Projet de Fin d'Études

Water quality assessment of rivers using macroinvertebrates in Latin America



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1

Progress report

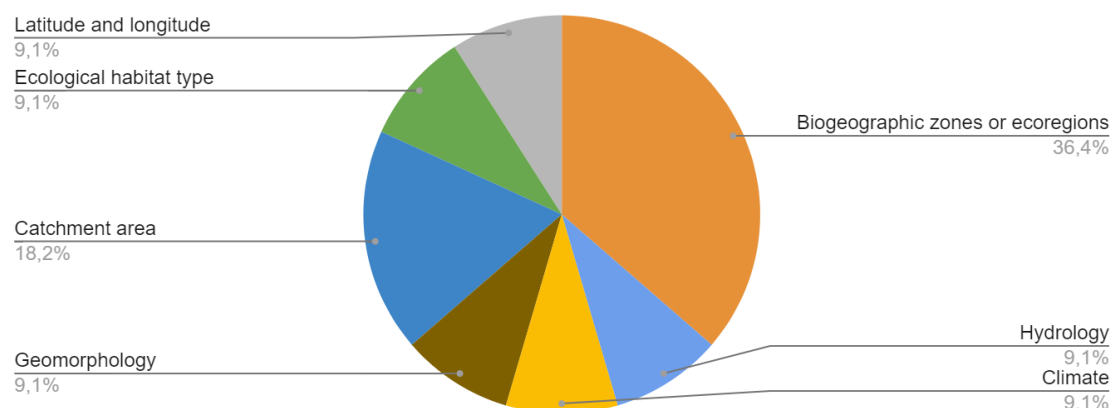
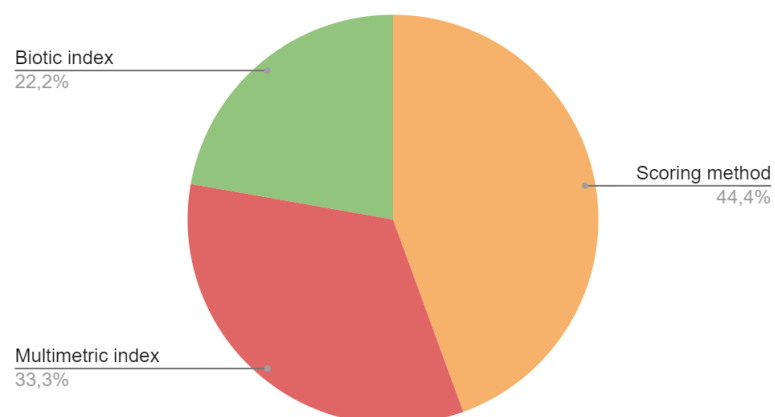
Sous la direction de : M. Karl M. Wantzen



- In Latin America, all countries except 4 are using macroinvertebrates bioindication methods. **32%** apply methods developed by and for countries from the **North hemisphere** while **73%** started to **adapt** an **develop** methods adapted for Latin America.
- Pioneers countries are : **Brazil, Argentina, Ecuador** and **Colombia**.

2

Harmonization of methods across Latin America



- Main result : it is essential to **adapt** the indices according to the **specific pollution sensitivity** of Mexican macroinvertebrates.
- The choice of the index : a **multimetric index**, to take into account all the complexity of the environment, specific to each **type of ecoregion**. It should be interesting to combine the index with a **rapid assessment protocol**, with parameters such as habitat, physico-chemical and morphological quality and vegetation.