## Réunion Island Presentation







# **Bio-indication** *In Réunion Island*

#### How to determine the water quality of a river?

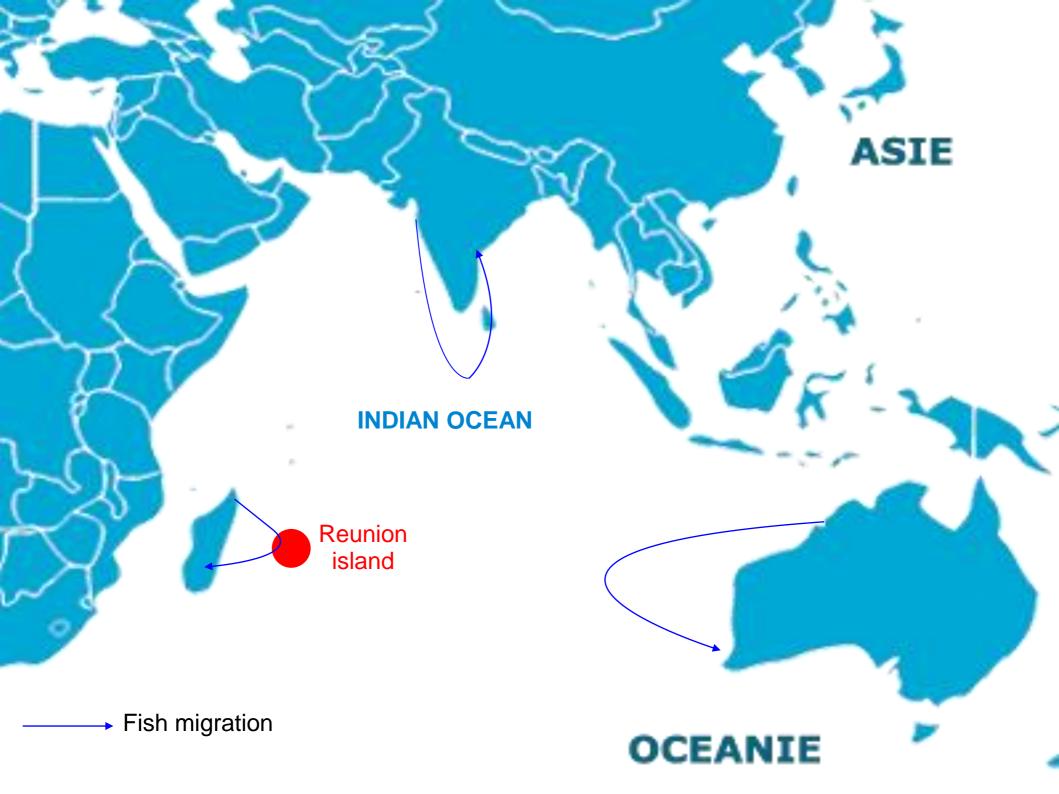
I – Thanks to fish

II – Thanks to macro invertebrates



# I - Fish



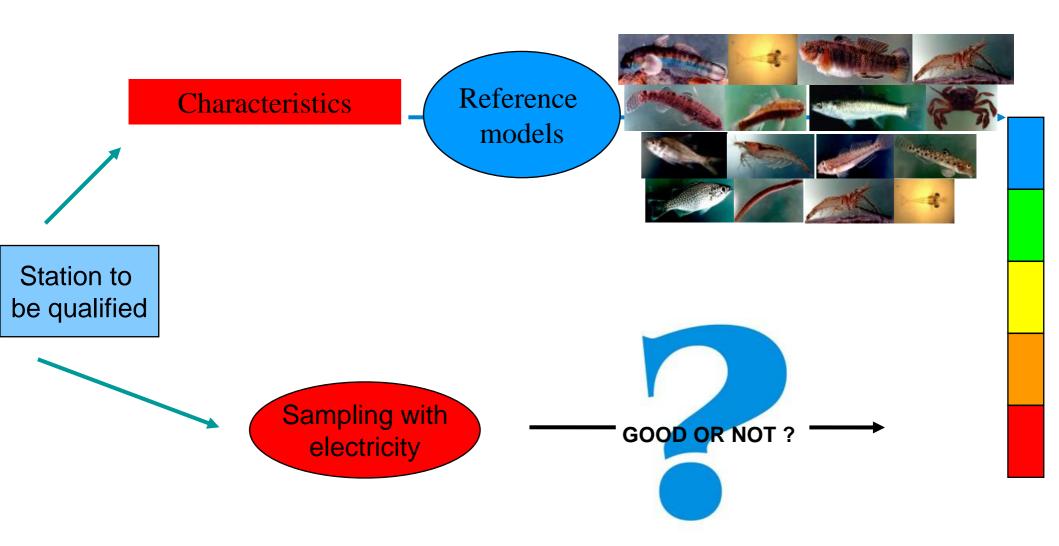




### Differents methods of sampling



# How to know Reunion island rivers quality through the study of fish population?



### **II- Macro invertebrates**



### St-Etienne River



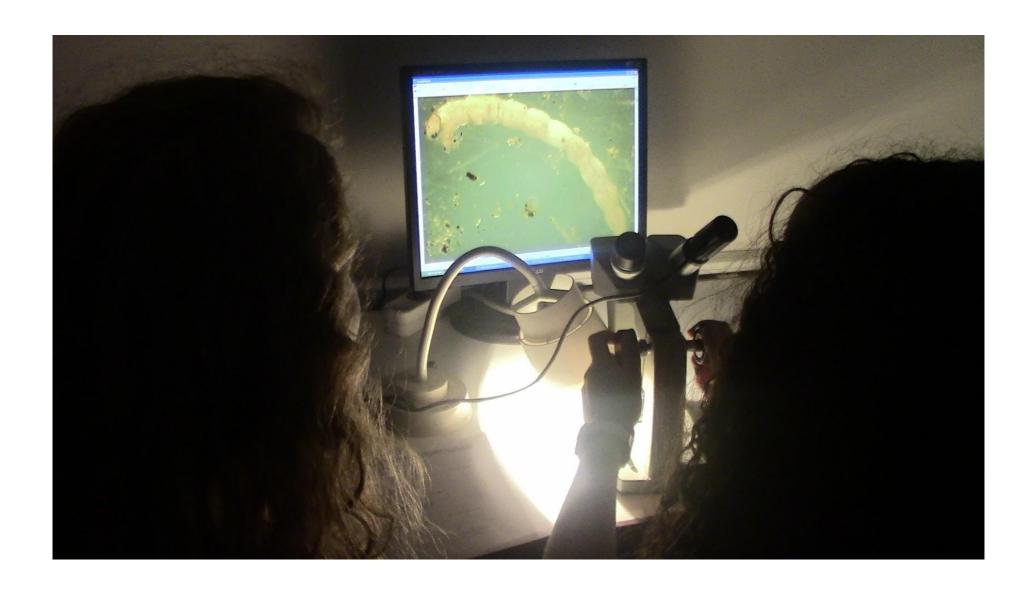
### Take macro invertebrates in the river



### Find the macro invertebrates



### Observation & Indentification





### **Taking Photos**



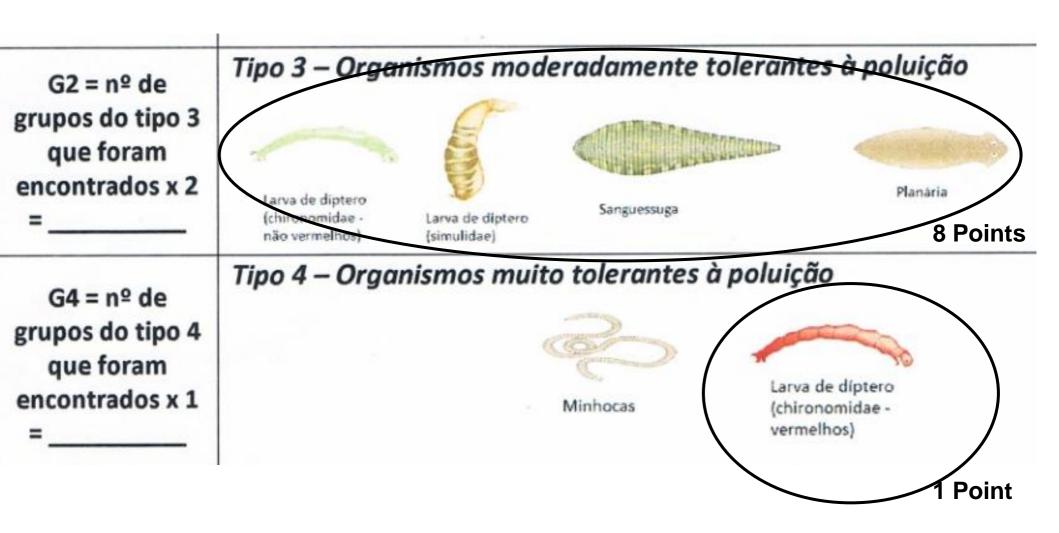


Caddisfly Larva



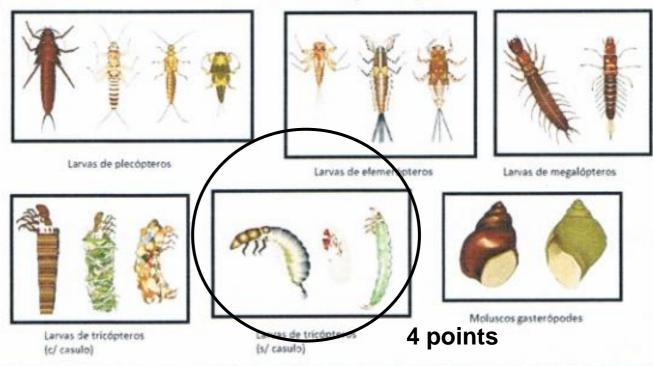
Dragonfly Nymph

### Give a quality mark for the river



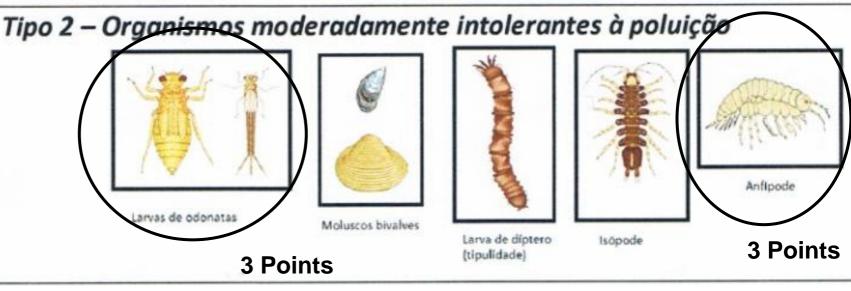
#### Tipo 1 – Organismos muito intolerantes à poluição

G1 = nº de grupos do tipo 1 que foram encontrados x 4

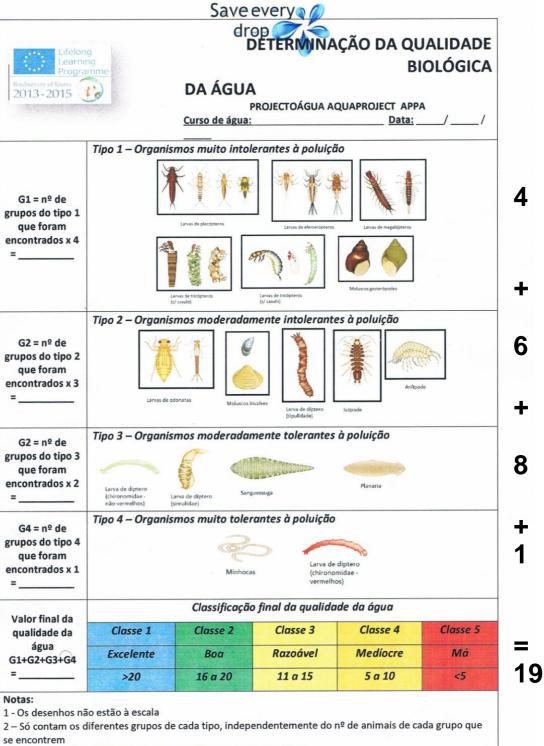


G2 = nº de grupos do tipo 2 que foram encontrados x 3

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#### Mark



Referências: www.hoosierriverwatch.com; www.dep.wv.gov/sos

### <u>Interpretation</u>:

Our rivers seem to be in a good condition!

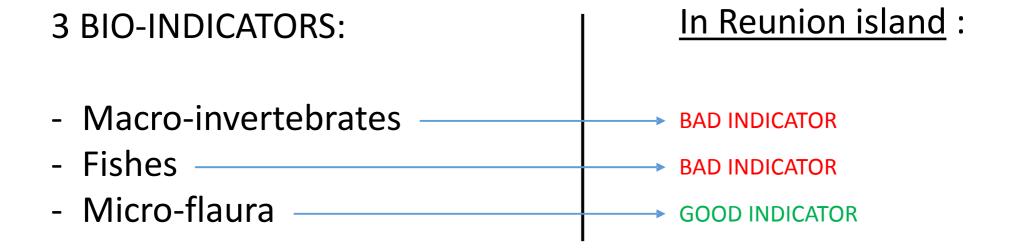
Classe 1	Classe 2 Boa	Classe 3 Razoável	Classe 4  Mediocre	Classe 5 Má
Excelente				
>20	16 a 20	11 a 15	5 a 10	<5

But here we only studied micro-invertebrates.

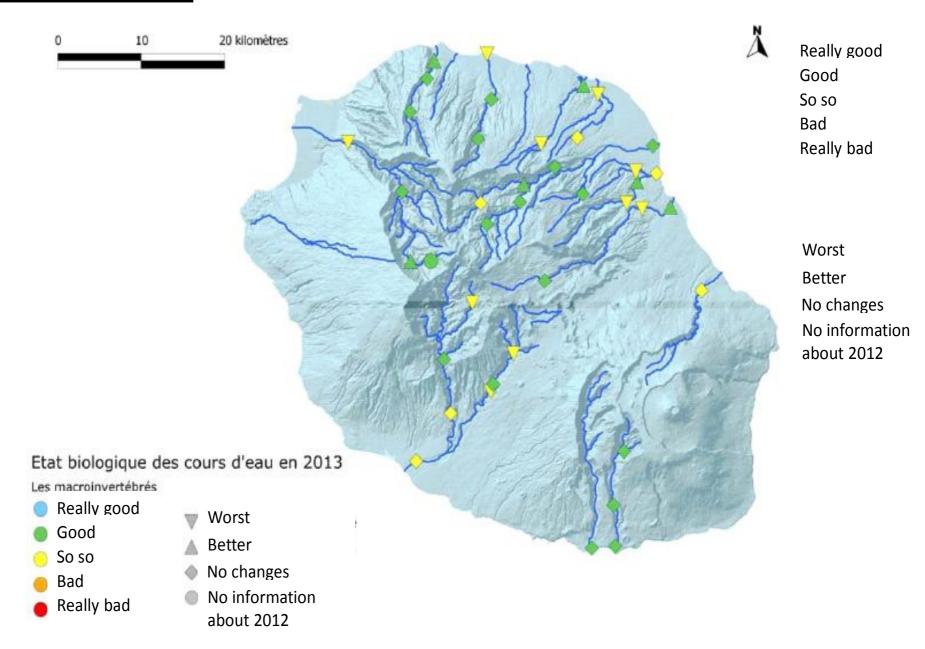
### **Conclusion**:

Micro-invertebrates: GOOD STATE.

But what about fishes and micro-flora?

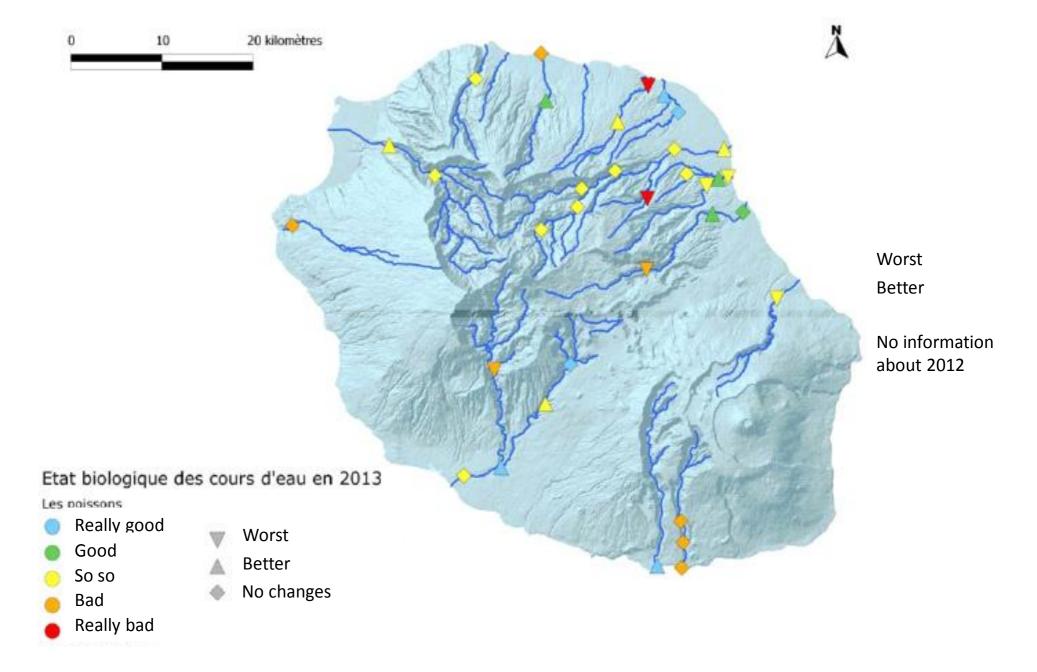


#### **Macro-invertebrates:**

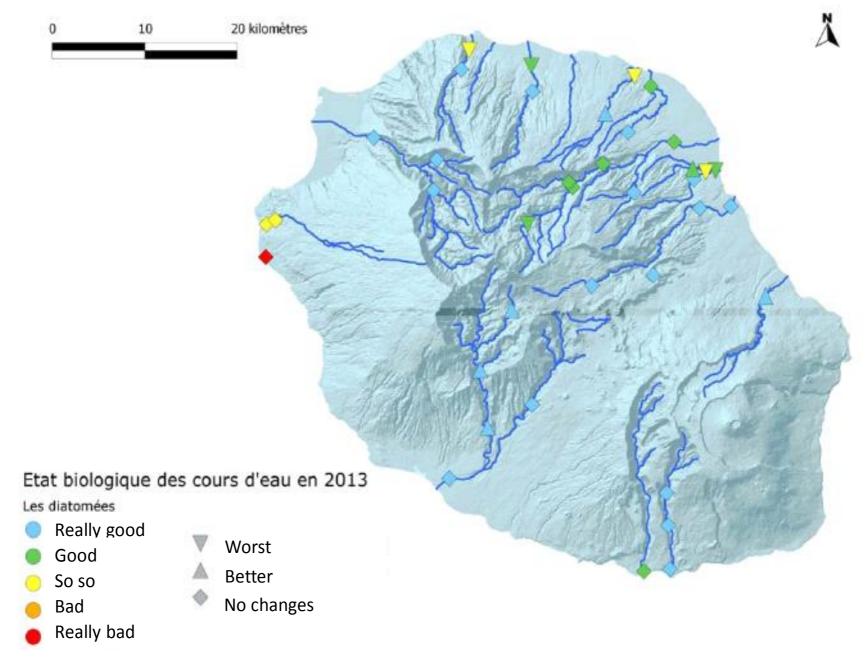




### <u>Fish</u>



#### Micro-plants:



# Thank you