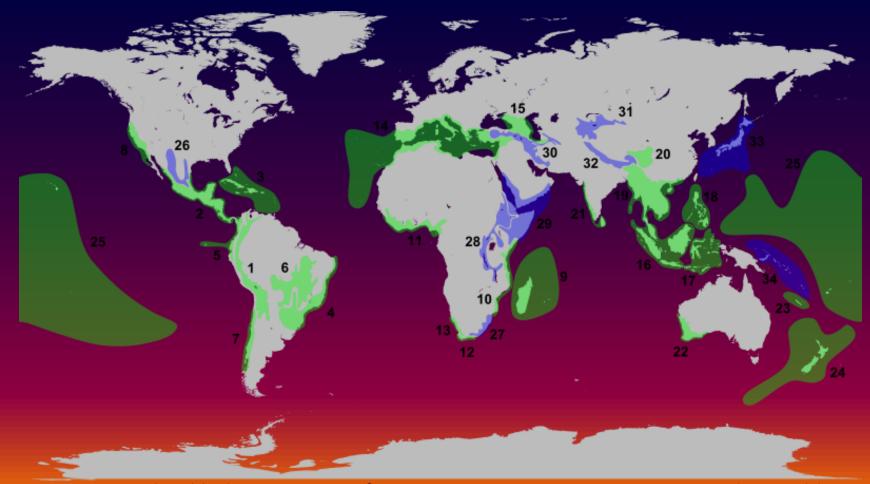


INVASIVES SPECIES IN REUNION ISLAND'S RIVERS AND PONDS





Reunion Island belongs to one of 34 HOT SPOTS OF BIODIVERISITY in the world

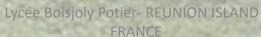


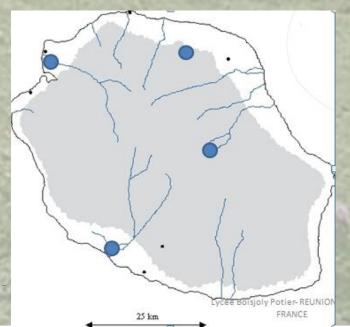
















Identity card of water hyacinth

- -<u>Scientific name</u>:

 Eichhornia crassipes
- -Group: Pontederiaceae
- -<u>Living areas</u>: tropical regions, ponds, soft water
- -Size: around 50cm to 1m (the roots → 3m)
- -Reproduction: rapid, vegetative and sexual.





2) Introduction in Reunion



Island

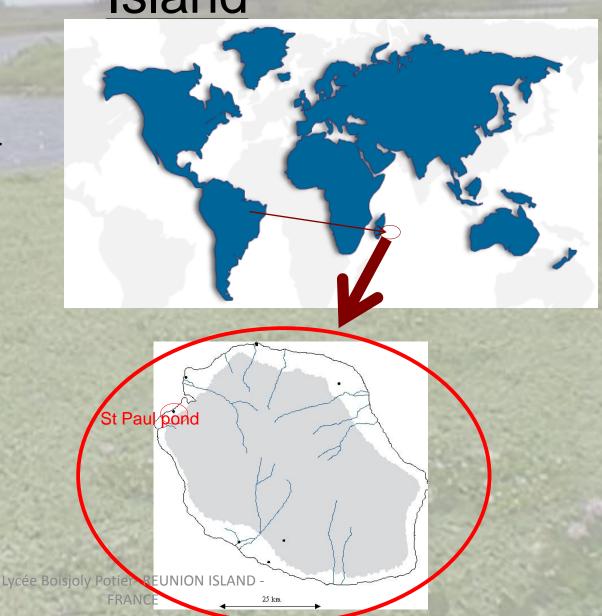
When?: 18th century

Why?: -To purify the water infested with mosquitoes.

-To be

used as an ornemental flower.

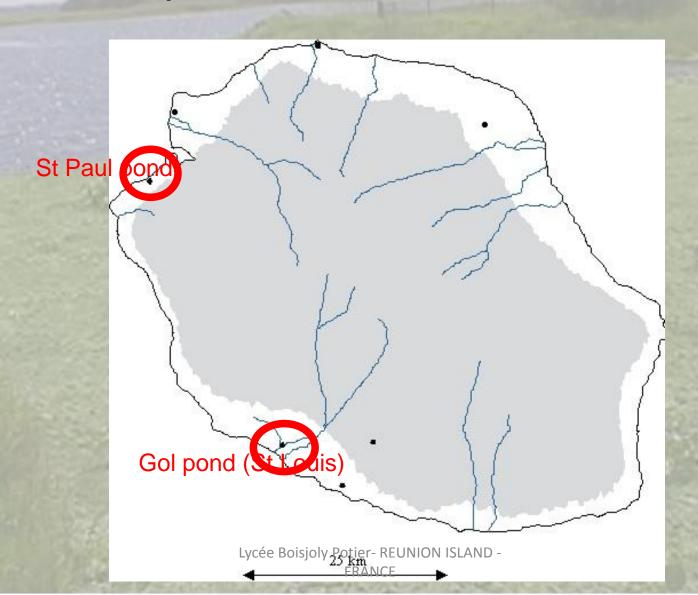
Where? : From Amazonia and the west of Brazil to St Paul pond







3) Current location





4) Consequences and



solutions

- -Reduces the mineral nutriment in the water.
- -Too thick for light rays to get into the water.
- -Reduces dissolved dioxygen concentration by eutrophication





On rainy periods the pond water overflows and the water hyacinth is dispatched towards the sea.





Identity card of Water lettuce

- Scientific name: Pistia stratiotes
- Family : Aracae
- Living areas: Pond
- leaves : around 14cm
- Reproduction :





Introduction in Reunion



<u>Island</u>

• <u>When</u>:?

• Why : - Ornament

- use like filter

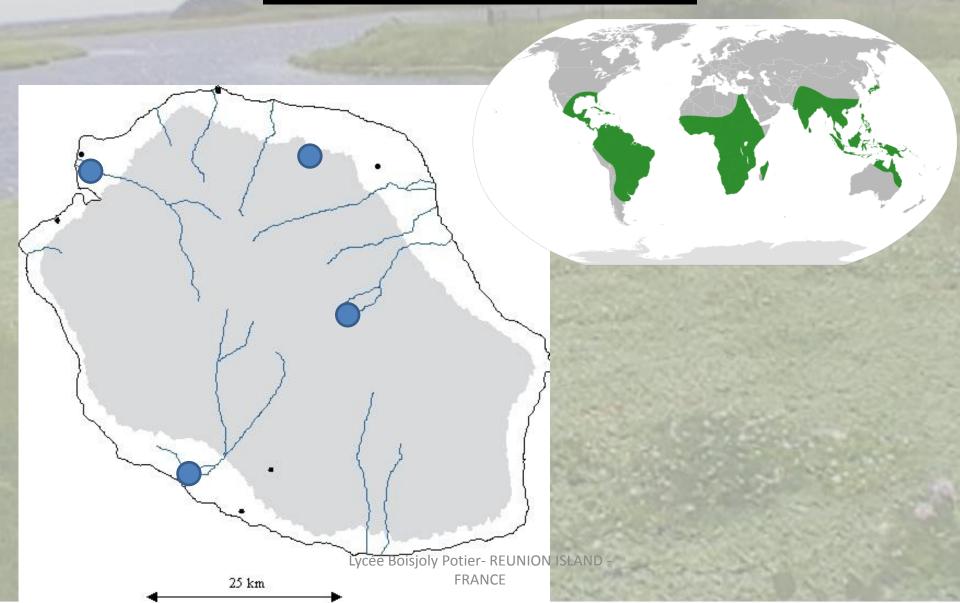
Where: from Africa













Consequences and solutions



- Block light and consume a lot of oxygen in spite of the other species (fishes or seaweed)
- Put out of the water





The Australian crayfish (or blue crayfish)



I- Presentation

-Scientific name: Cherax quadricarinatus

-Family: Parastacidae

-Size: 15cm for female and 18cm for male (until 25cm)

-Average weight: 250g

-Lifespan: 5 years

-Feeding: Can adapt its diet.

<u>-Reproduction</u>: Female lays between 300 And 800 green olive eggs. The incubation takes about 6 weeks.

-Habitat: Between 15 and 30°c Lycée
Australia

Between 15 and 30°c Lycée
Bois South Africa, Mexico, Jamaica joly
Potier- REUNION ISLAND - FRANCE





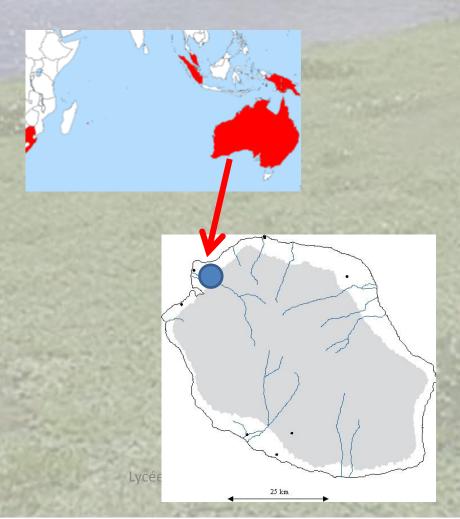
Introduction in Reunion Island



Where: This crustacean found in "I'Etang de Saint Paul's "pond and it is invasive in this area.

Why?

When?







Consequences and solutions

Competition and predation behaviour of indigenious fauna which can lead important modifications on aquatic ecosystems. This species is often host to diseases

(virus, bacteria).



Fry = baby fish =bichique



Cabot bouche Boisjoly Potier- REU ronde = adulte

"Bichique" and small shrimp.

Species threatened by the Australian crayfish



Identity card of Managuense



- Scientific name:

Managuense (*Parachromis* managuensis)

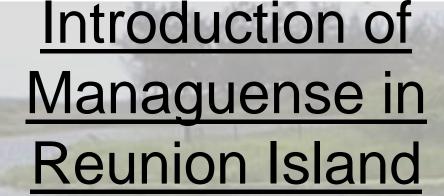
- Family: Cichlidae
- <u>Living areas</u>: Central America, Honduras, Costa Rica, Reunion Island
- Size: 50-65 cm
- Reproduction: spawning of 1000-2000 eggs



 Food: Eat fishes or microinvertebrates

Lycée Boisjoly Potier- REUNION ISLAND -







- Why: To kill Tilapias (introduced by aquaculture).

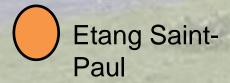
- Where: Introduced in Etang du Gol





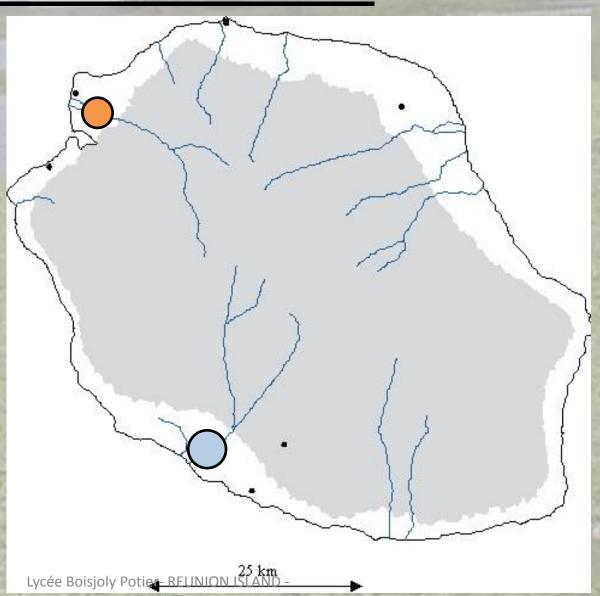
Current Location





0

Etang du Gol







Consequences and Solutions

- Predation and loss of endemic biodiversity.
- -One of the solutions is to fish itbut battle lost in advance?





Identity card of « Le Tilapia »

- Scientific name:

Oreochromis niloticus spp

- Group : Cichlidae

- <u>Living areas</u>: warm rivers and ponds

- Size : 20-30 cm

- <u>Food</u>: mosquitos, phytoplancton

- Colour : silver







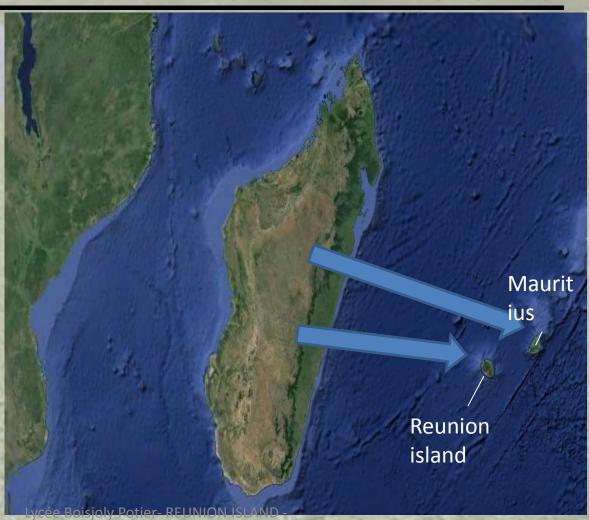
Introduction in Reunion island

- When : In 1957

- Why: Feeding

role

- Where : From Madagascar to farming pools



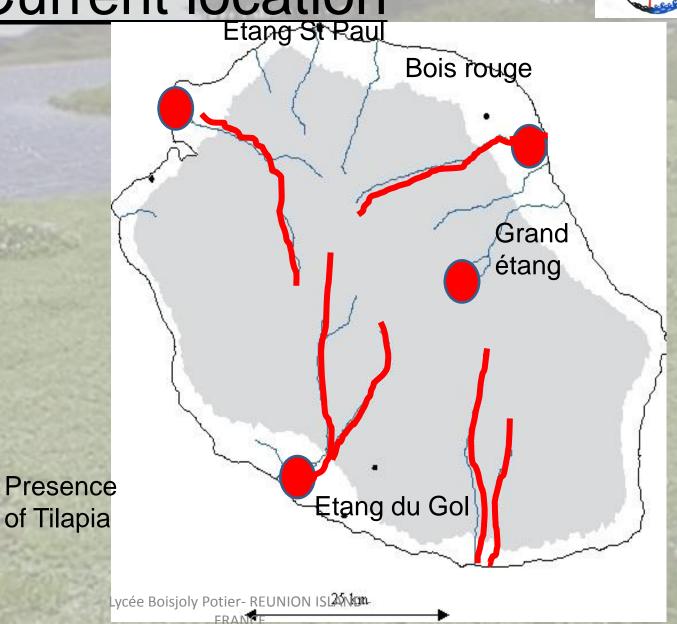


Rivers

Ponds

Current location









Consequences and solutions

- Impacts: taking place of local endemic fishes
- -> disappearance of those species
- No real solution ... yet





Identity card of Chinese turtle

Class: Mauremys sinensis

Family: Geoemydidae

Length: < 25 cm

Food: water plants, fish, snails, worms, insects

Breeding: between 5 and

7 years







Introduction of Chinese turtle in Reunion Island?

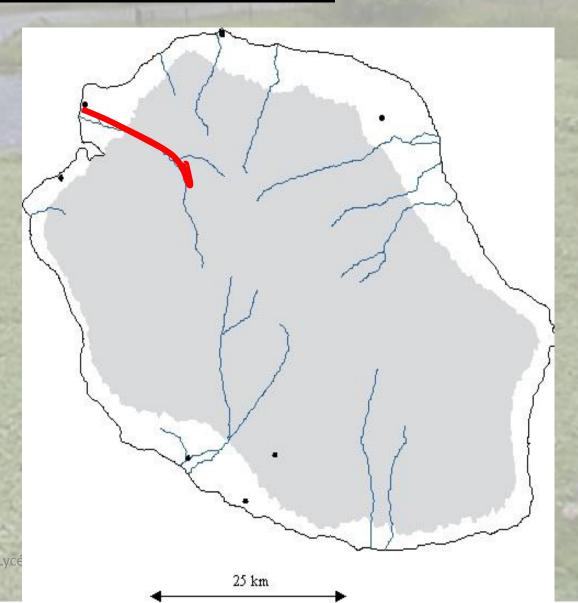
Where does it come from? Coast provinces of the south of China. North and center of Vietnam. Laos and Taiwan.

How? Possibly escaped from their breeding space.

Why? To become petsWhen? End of 20th century

Current location

Rivière des Galets and maybe ponds







consequences-Solutions

- Harmful for waterways.
- May consume insects and fish.
- No real solutions nowadays



IDENTITY CARD OF THE AFRICAN COMMON TOAD



Alternative name: Gutturalis toad

Scientific name: Bufo Bufo or Bufo gutturalis

Class: Amphibia

Family: Bufonidae

Size: 7 to 12 cm

Breeding: water

Food: other frogs,insects,spiders





Introduction to Reunion Island



When ?1927
Why ?To fight paludism,malaria
Where?From southern Africa

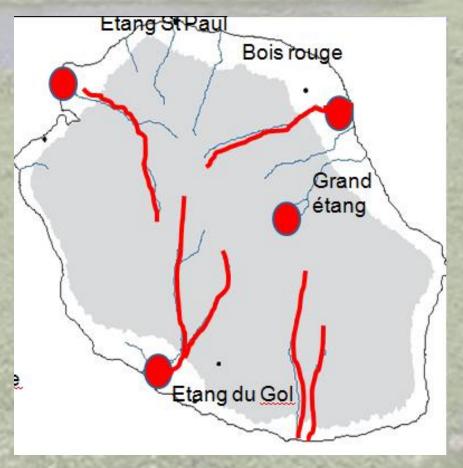








<u>in Reunion island</u>: humid areas The gutturalis toad is very adaptable to any environment.







Consequences-Solutions

The Bufo bufo is a great predator.

Gecko de Manapany



Gecko des Hauts



Lycée Boisjoly Potier- REUNION ISLAND - FRANCE









