

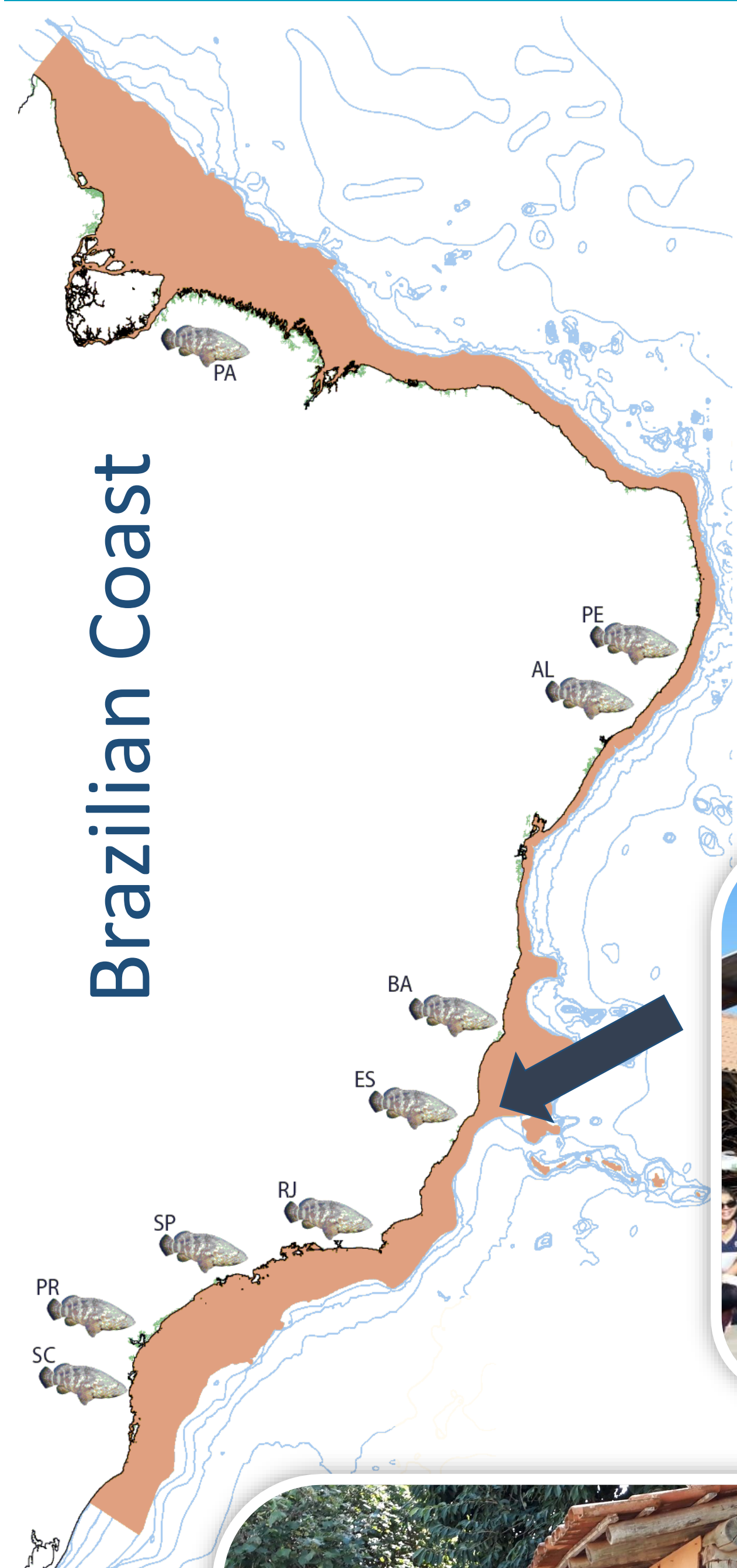


## *Epinephelus itajara*

- Mero, canapú, bodete, badejão, goliath grouper;
- Inhabits marine and brackish waters, associates with complex and hard substrates and shows strong site fidelity;
- Large sized, late sexual maturity, long life, slow growth, spawning aggregations;
- Critically Endangered (IUCN Red List);
- The first marine fish subjected to a strict moratorium in Brazil;
- Non-lethal sampling.



## Environmental Education



Realização



## Research & Conservation

Samples

2012  
• 218

2015  
• 71

2018  
• 31



## Fieldwork



## Stable Isotope Analysis

Drying  
oven 4h  
(55° C)

Hydrogen  
Peroxide  
(30%/5min)

Cross  
Section  
1.5mm

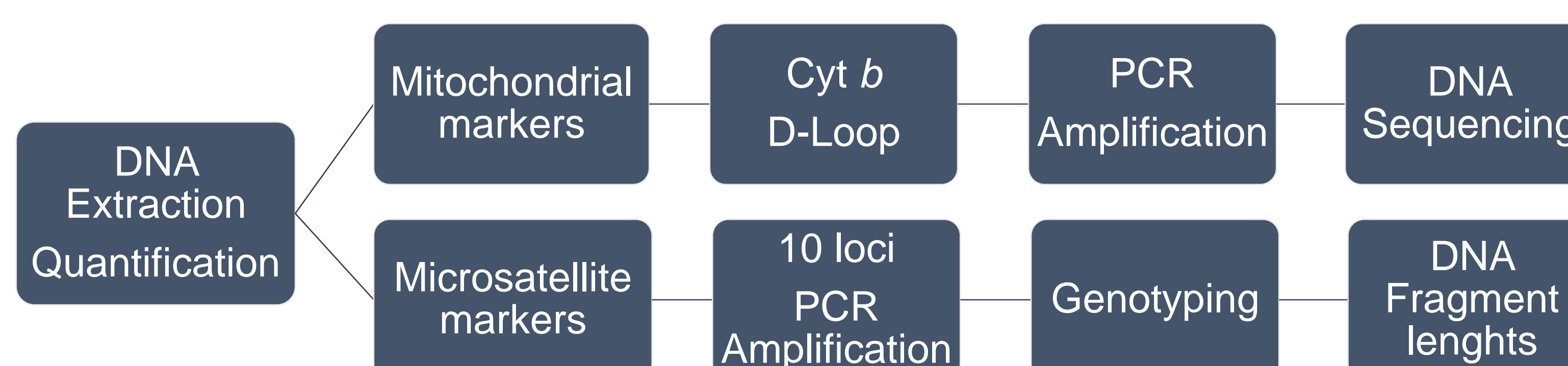
Life Time  
Series  
(Bands)

Combustion  
1.050°C

- Habitat use by juveniles ( $\delta^{13}\text{C}$  e  $\delta^{15}\text{N}$ );
- Basal resources ( $\delta^{13}\text{C}$ );
- Trophic level changes between the ontogenetic phases ( $\delta^{15}\text{N}$ );
- The trophic level ( $\delta^{15}\text{N}$ ): each site and between sites.



## Genetic Analysis



- Individual genotyping;
- Sibship reconstruction;
- Genetic diversity;
- Gene flow;
- Population structure.

Patrocínio