Diversity of fish with ornamental potential and study about the ecology of *Symphysodon aequifasciatus* in the Amanã Sustainable Development Reserv

Hercos, A. P.; Camargo, M.; Queiroz, H. L.

1. INTRODUCTION

From fifty decade the amazon region start a exploration by a sistematic way the ornamental fish trade, growing its importance by along of the years. At the moment more than 20 milion of alive individual are exportted annualy from this place, the cardinal (*Paracheirodon axelrodi*) and the acará-disco (*Symphysodon* spp) are the more comercialized species (figure 1).

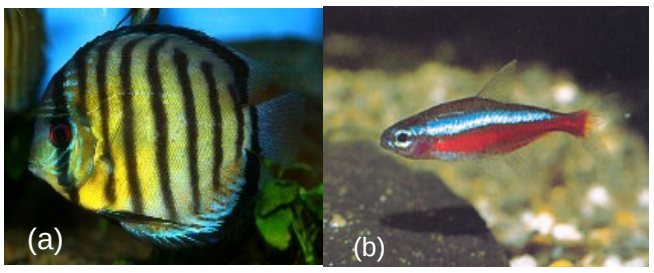

Figure 1: (a) *Symphysodon aequifasciatus* (b) *Paracheirodon axelrodi*

This activity produces around 3 million of dolars income to the Amazonas state economy, and a excedent of 100 million of dolars in the world retail.

Although the importance that ornamental fishery comes reaching in the last decades, several biologic and ecology parameters about the most explored species are poorly known.

2. OBJECTIVES

• To take samples in the channels (igarapés) associated to the Amanã lake looking for potential ornamental fish species.

• To realize a study about the acara disco's biology (*Symphisodon aequifasciatus*) who lives in the Amanã lake and its associates channels (igarapés), by a way to beget and assistence to management exploration of this specie through the community in the Amanã Sustainable Development Reserv (RDSA).

3. STUDY AREA

The Amanã Sustainable Development Reserv (RDSA) was criate in 1998 by government of Amazonas State, including parts of two hidrographical basins of Amazônia, the Solimões river basin and the Negro river basin in the area situated among 1º 35' 43" e 3º 16' 13" S e 62º 44' 10" e 65º 23' 36"W (figure 2).

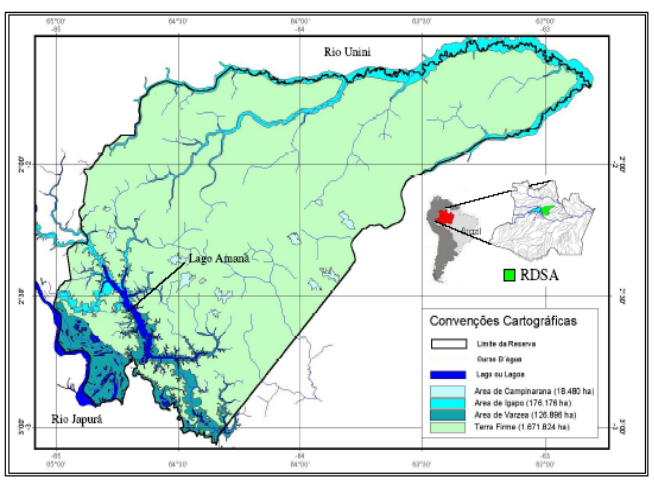

Figure 2: Map of the Amanã Sustainable Development Reserv (RDSA).

4. METODOLOGY

The collection places and the fishery areas was chosed thus to be obtain a greatest capture conform the study's focus species (table 1; figure 3).

Table 1: Channels (igarapés) names sampled, fishery instruments utilized and captured species.

Channels	Fishery instruments	Focus species
Aiuiri	Seine net	Acará-disco
Açú	Seine net	Acará-disco
Branco	Seine net	Acará-disco
Cacau	Seine net	Acará-disco
Guariba	Trap/ trawl e rapiché	other species
Queimada	Trap/ trawl e rapiché	other species
Samaúma	Seine net	Acará-disco
Veado	Trap/ trawl e rapiché	other species

Figure 3: (a);(b) The team of ornamental fish project collecting with trawl species with ornamental potetion. (c) Trap putted in the water to capture that species. (d) Artificial brunches used for the capture of *S. aequifasciatus*

To the reserch with *Symphysodon aequifasciatus* will be sample the channels (igarapés) Açu, Aiuiri, Branco, Cacau e Samaúma. Already done it to colect another species with ornamental potential, was choose the channel (igarapés) Veado e Queimada (figure 4).

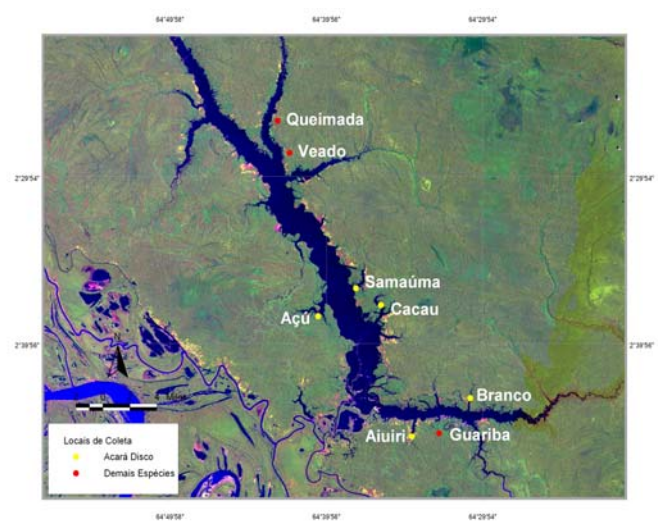

Figure 4: Places of collections of the study

5. PREELIMINAR RESULTS

The collected material in february 2006 still being also analysed, but was aready identifed some species with commercial interest. (figure 4).

Figure 4: Species collected in February of 2006 that they apresetaram commercial interest.

6. CONCLUSION

Studies about the biology and the population dynamic of species identified with ornamental interest will be realized to know the viability of its sustainable management.

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