

Title: **Seafood Market-Series As Fishing Pressure indicators for An Eaf: A Historical Multispecies Analysis of the São Paulo Wholesale Market, Se Brazil**

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Abstract: The ecosystem approach to fisheries (EAF) challenges the sustainable management of resources at an ecosystem level facing human well-being and environmental health. Here we describe how economic analyses may fill important knowledge gaps for such a challenge when regarding a broader multispecies context, e.g. tracking signals of change in ecosystem and stocks health. Firstly, we show key results of a 40-years trend analysis of almost 100 seafood market categories in São Paulo, a mega city of South America. The annual behavior of ex-vessel prices and market quantities appeared useful as alternative fishing pressure indicators at an ecosystem scale, and were analyzed regarding resources ecological characteristics, such as trophic level (TL), size, longevity and depth. Several multispecies indicators were also tested. The historical trend of total market values showed its maximum in 1989, a period correspondent to fishery landings declining. Such a decline was accompanied by changes in the relative importance of some categories, reflecting shifts also accordingly to their TL, size and longevity. Results appeared to be extremely helpful to test hypothesis of ecosystem change and may prove to be useful in a cost-benefit analysis of management proposals. Secondly, we further elaborate on the significance of seafood multispecies market-series for an ecosystem approach to fisheries (EAF).