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Orientation: Sustainable Use of Marine Resources

Specialization Area: Management and Use of Resources

Research Area: 2.5 Economics, Legislation and Management of marine resources



PhD project: The ecosystem approach and the assessment of socioeconomic impacts of fishing in Galicia

Supervisors: Dr. Juan Surís Regueiro (University of Vigo)

Summary: The Ecosystem Approach to Fisheries (EAF) contributes to achieve the sustainable development goals. However, in-depth knowledge on the environmental and its related human activities is required to implement it. In this sense, the assessment of socioeconomic effects on society is recognized as one of the main challenges in the use of EAF. To overcome it, an extension of the input-output analysis is designed in this PhD project and tested in one of the most important fishing region of Europe (Galicia). In particular, a practical procedure to include price mechanisms is proposed, considering the entire sectorial linkages (backward and forward) of the economy simultaneously. Furthermore, an empirical demonstration of the method is introduced by linking supply shocks to physical variations of fishing possibilities for the main fishing segments of Galicia: shellfishing, small-scale, coastal, distant and long-distant. The results demonstrate the extension such as a valid proposal to obtain accurate valuations of the potential socioeconomic impact of a fishing supply shock (e.g. TAC allocation). Additionally, the estimated multipliers allow to assess and compare in advance different fishing management options for the Galician region. Consequently, it is remarkable the ability of this project to support the decision making of main stakeholders (fishermen, policy makers, etc.) and, therefore, the implementation of holistic frameworks (such the EAF) to manage natural resources.

