

Economic dynamics of reef fisheries off Veracruz: price time series analysis

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Abstract

Traditionally, fishing in Veracruz has been small-scale and concentrated around the reef system. To enable us to observe inter and intra-annual changes of gross value of fishing grounds within the Veracruz reef system we mapped the value of different fishing areas by species, and by types of fishing gear used. The analysis is made for low and high demand seasons within each year for a twelve-year period. We performed a time series analysis of fish dock prices and used a Generalized Linear Model (GLM) to obtain price determinants. Results showed a strong temporality of demand, a decrease in reef fishing, and an increase in migratory species catches. We discuss fishery evolution and how changing demands and management regulations affect marine ecology in this particular area.