

**OPTIMAL EXPLOITATION AND SUSTAINABLE MANAGEMENT OF IVORIAN
HALIEUTIC RESOURCES: an analysis of fishing effort.**

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Abstract

Ivorian fishery resources are severely degraded by reason of poor state policy in the development of fisheries and aquaculture, of very degrading fishing techniques and fraudulent intensive exploitation of fish, of deforestation and its corollary erosion and industrial and agricultural pollution. This degradation, which is characterized by the decline in the stock of fish, may lead the country into ecological, economic and nutritional impasse. This rupture of environmental balance justifies our study whose purpose is to advocate a planning strategy for the use of fisheries resources. In order to determine rigorously the optimal fishing effort should be allocated to fishermen, we chose to use the economic static model of Gordon-Schaefer. It appears from this study that the current effort is higher than it should be, while the stock of the resource is well below its optimum level. It is therefore necessary to regulate fishing activities according to changes in stocks and the environment as a whole. With our results, we felt it was appropriate to recommend the following actions: Foster aquaculture while regulating fishing activity which would generate a rapid recovery of capital fish, Create a structure of agricultural credit to improve production systems and support the creation of employment opportunities in other economic sectors, Improve as much as possible the quality of the aquatic environment by minimizing the effects of erosion, deforestation, pollution of all kinds, etc. And finally, promote the effective supervision of the Ivorian coast, and the census and effective control of traditional boats.