



Senegalese *Sardinella aurita* from 1995 to 2011: Review of size spectra, sex ratio, gonadal somatic and condition indexes from small scale main national landing sites

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Abstract

Sardiella aurita is the main abundant fish species in Senegal and of major socio economics interest in West Africa. This species follow the r selection theory *i.e.* low cost for reproduction, short lived fish, and large number of offspring at a time, low offspring survival and no parental care; thus they are sensitive to climate fluctuation which impacts their pelagic habitat. A data base per month started from 1995 to 2011 have been compiled by the CRODT mixing landing site sampling with some data collected *in situ* using fisheries research vessel. From this basis, we analyze the change in individual fish size spectra, their sex ratio, maturity stage and gonadal somatic index as well as the condition factor. The change, are scrutinized per size class and geographical location associated to different pelagic habitat in Senegal.

Keywords: Senegal, CRODT, Yahboy, *Sardinella*, landing site, vessel survey, statistics.



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Extended book of Abstract

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