DEMERSTEM : WP1 – Stock assessment

Pagrus (*P. caeruleostictus*) in Guinea – Guinea-Bissau

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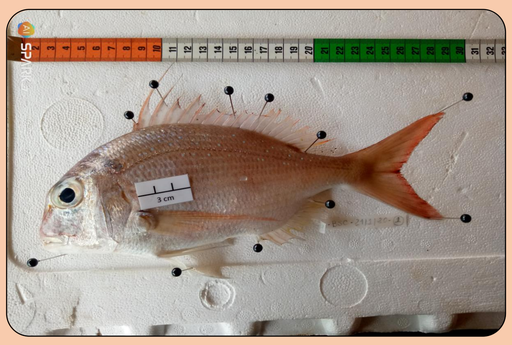
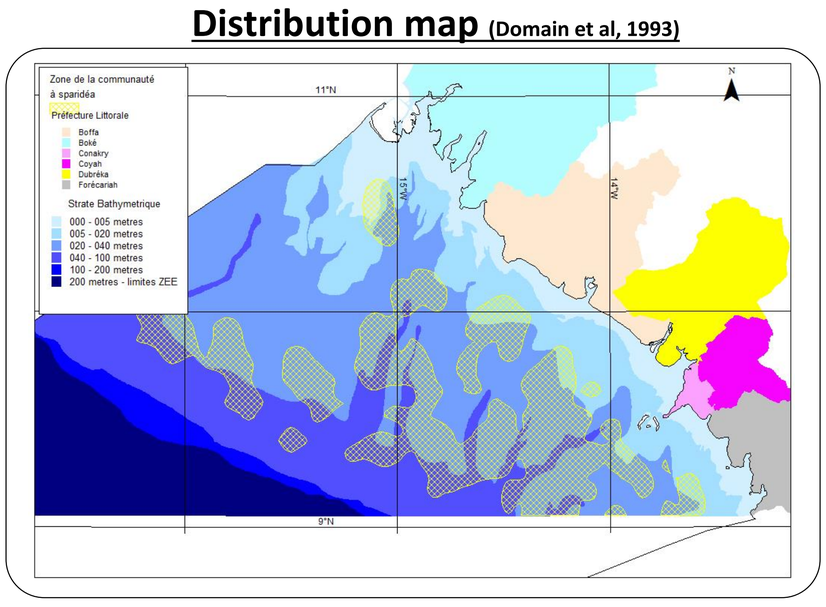
1 Introduction

Pagrus caeruleostictus, or **pink seabream** of the sparid community, is present on most of the Guinean continental shelf above 15 m. The size range encountered is from 4 to 40 cm. The analysis does not take into account Sierra Leone and Liberia.



Distribution map (Domain et al, 1993)

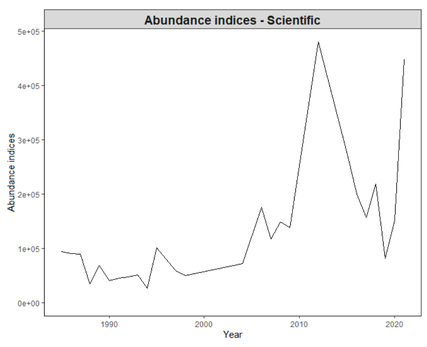


2 Data

Scientific survey

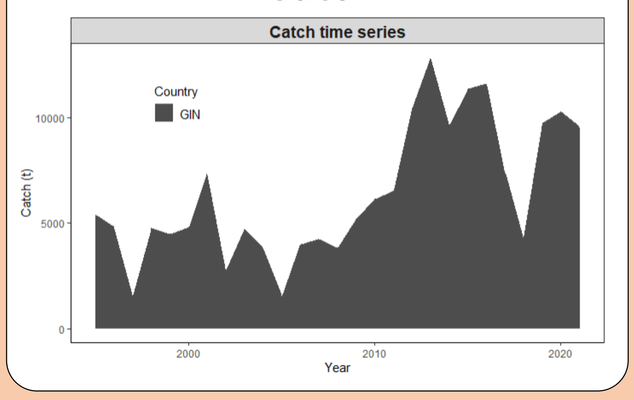
Between 1995-2021, 16 scientific survey and 1728 beam trawls were carried out..

Abundance index

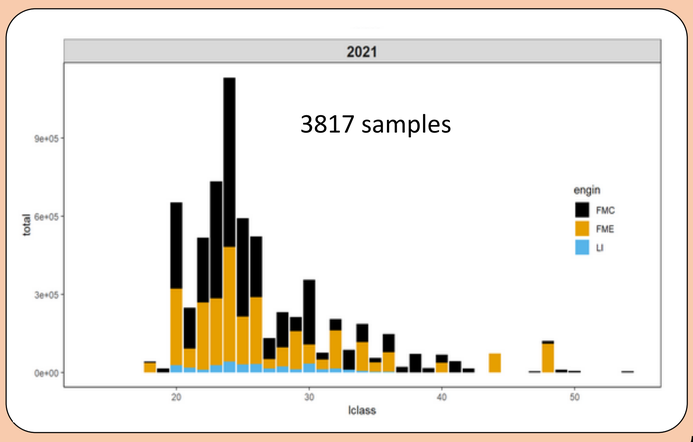


Data on landings

Catch



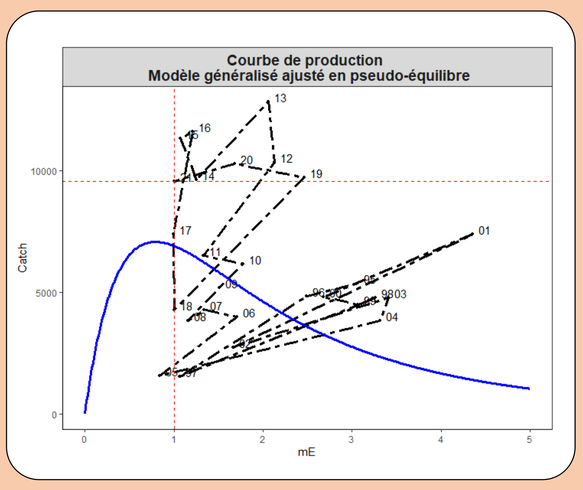
Length frequencies on landings



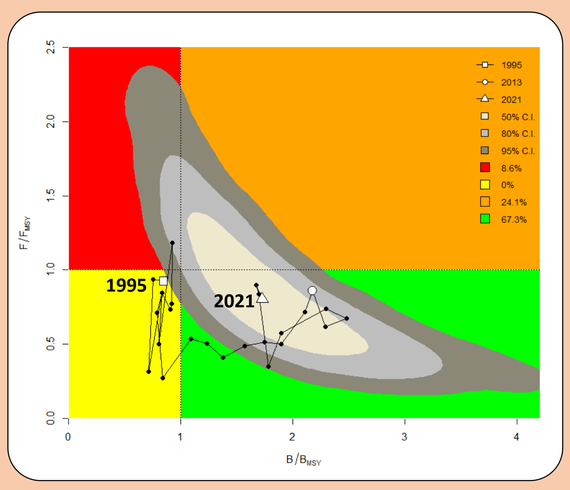
Stock assessment

3 Results

Several fitting methods



The adjustment of the global model in **pseudo-equilibrium** provides an MSY of **7100** T and indicates an **overexploited** stock



The production surplus model (**JABBA**) indicates a **fully exploited** stock with an MSY of **6900** T.

4 Conclusion

- **The multiplicity of tools makes it possible to make or break the diagnosis.**
- **In this case study, the models indicate consistent MSY. JABBA can be used to represent this confidence interval and a stock status between under- and over-exploitation. A definite diagnosis cannot be made.**
- **Models based on size frequencies are a prospect for refining the diagnosis.**

References :
Evolution de l'abondance du thiof *Epinephelus aeneus* en Mauritanie

DEMERSTEM Project :
http://pescao-demerstem.org/

English version of the poster :

European Union