

¹ Fisheries Commission - Fisheries scientific survey division (FSSD), Accra, Ghana.

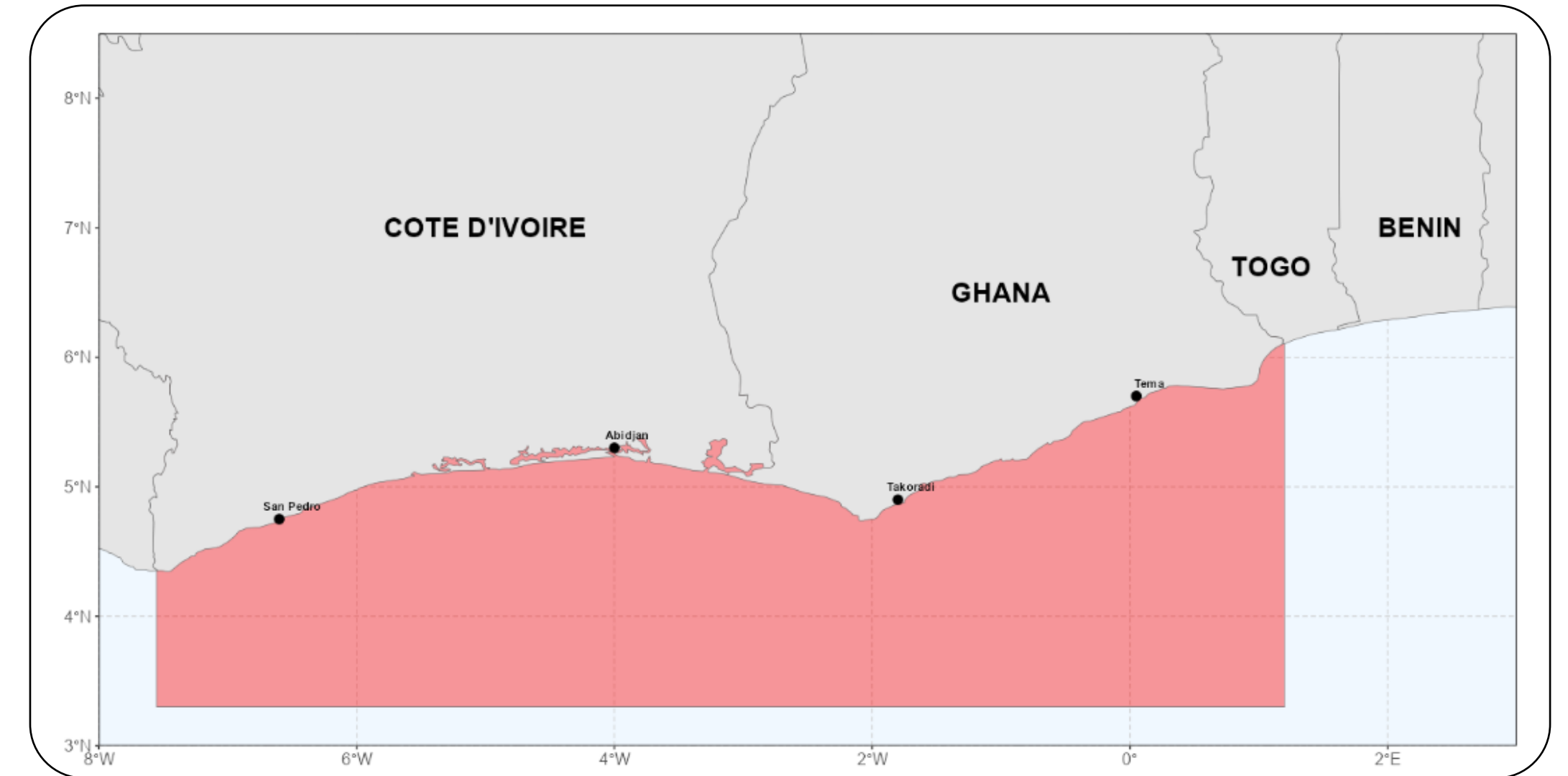
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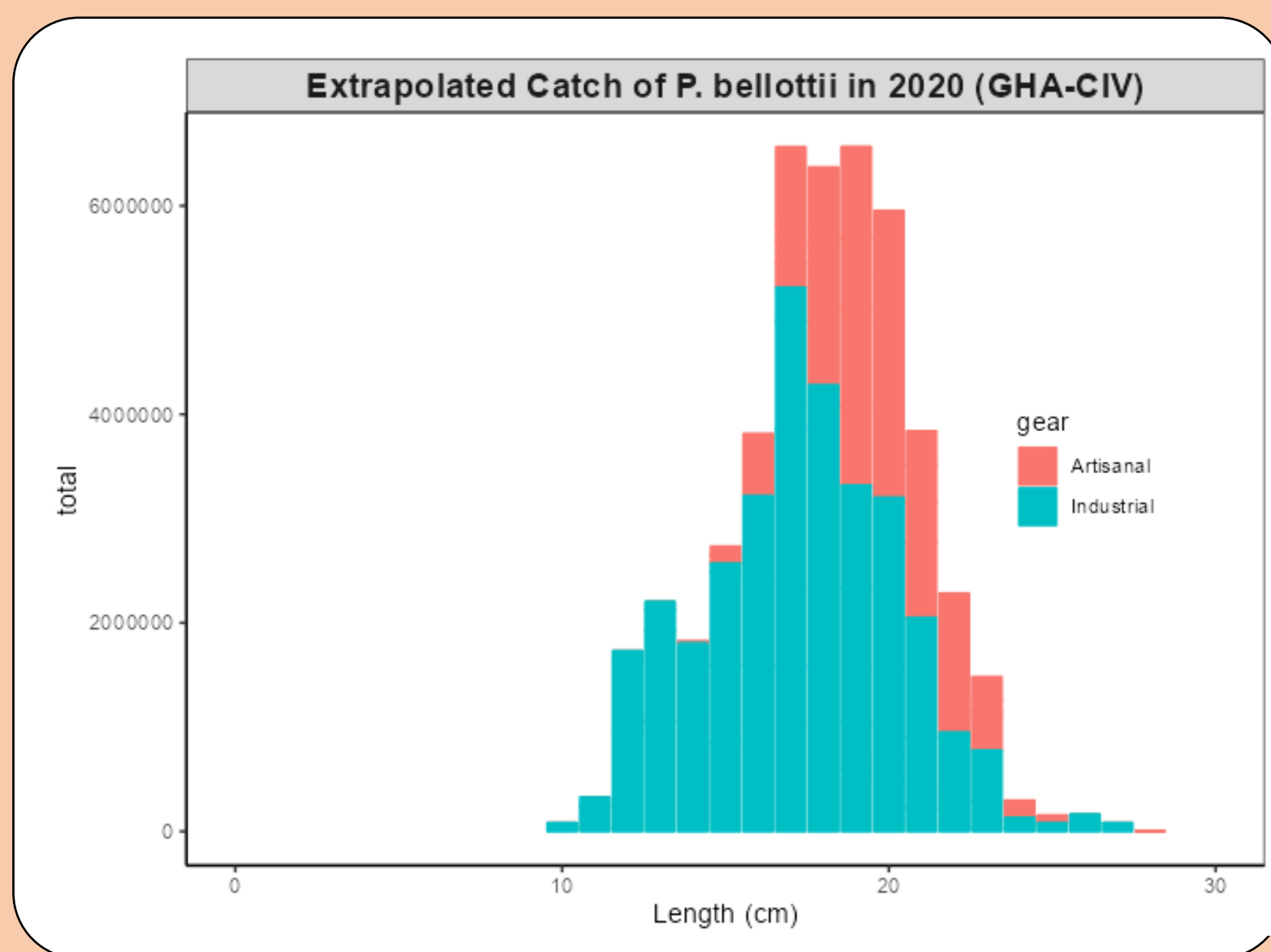
1 Introduction

Pagellus bellottii belongs to the family Sparidae. It is one of the most abundant sparidae on the West African coast with great economic importance to Ghana and Ivorian fisheries. Only Côte d'Ivoire and Ghana are taken into account into this analysis.

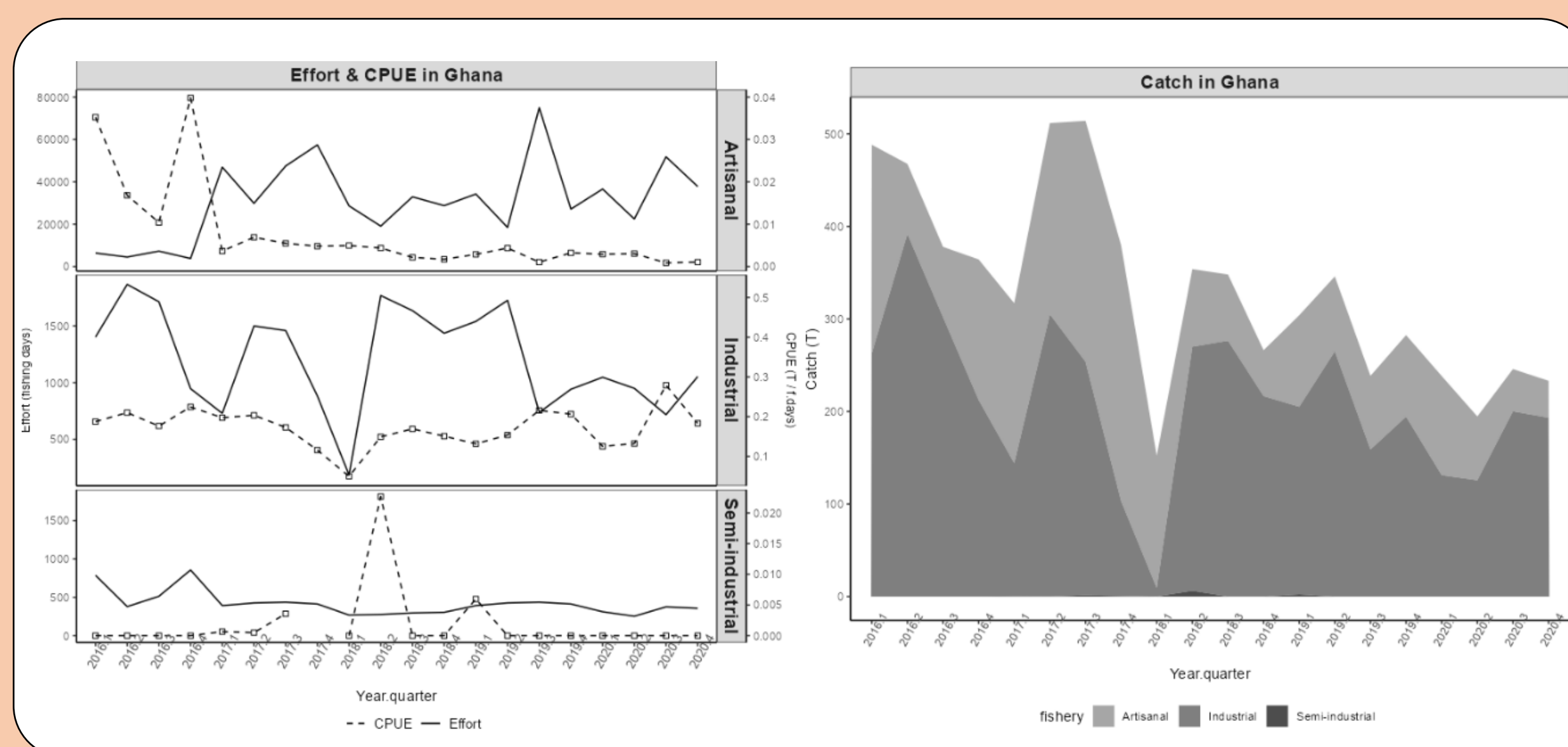


2 Data

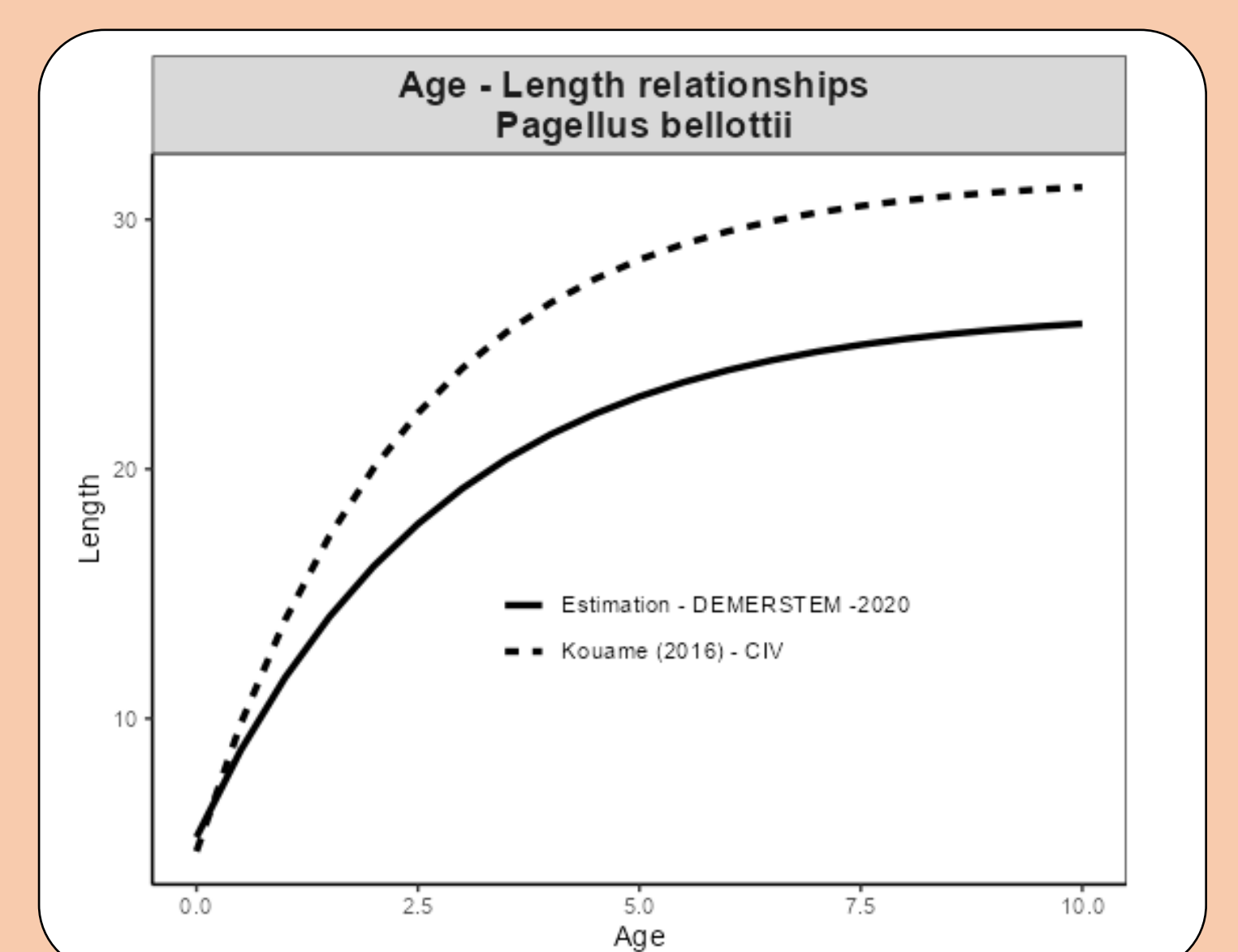
Length frequencies on landings



Catch & Effort

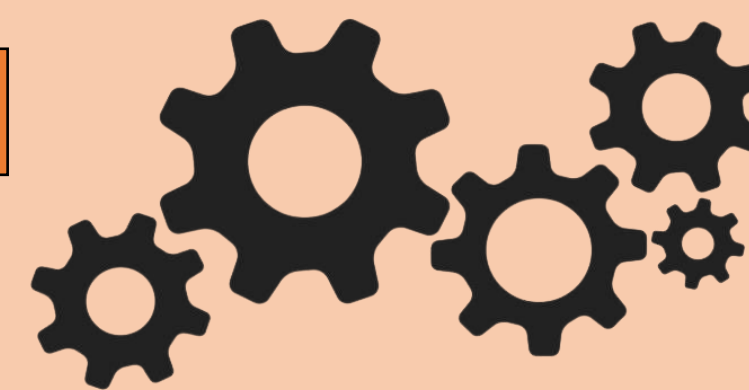


Von Bertalanffy Growth Curve



The length frequencies are taken from the Ivorian collection systems (2006-2020) and the sampling carried out during the DEMERSTEM project in 2020-2021 in Ghana and Côte d'Ivoire.

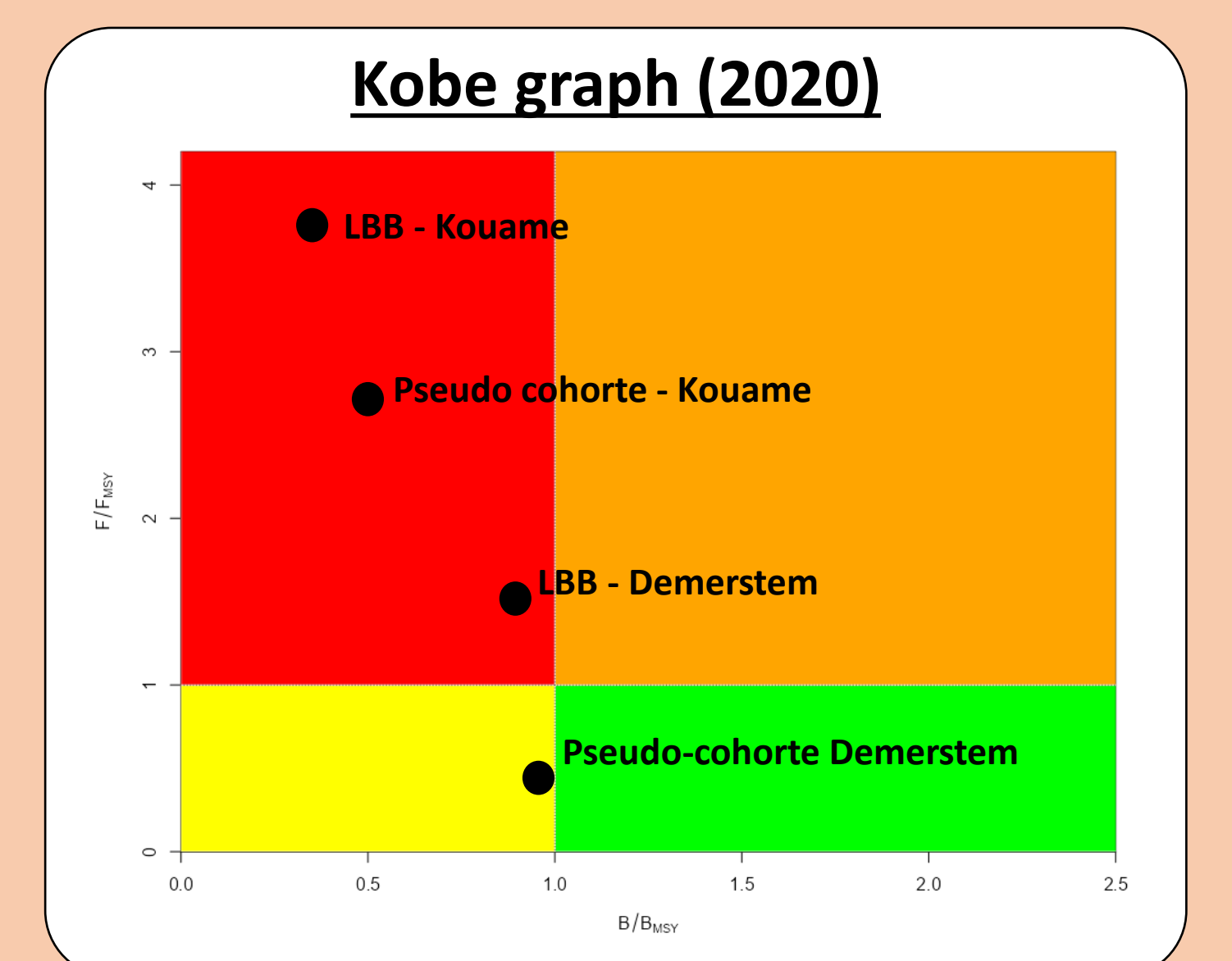
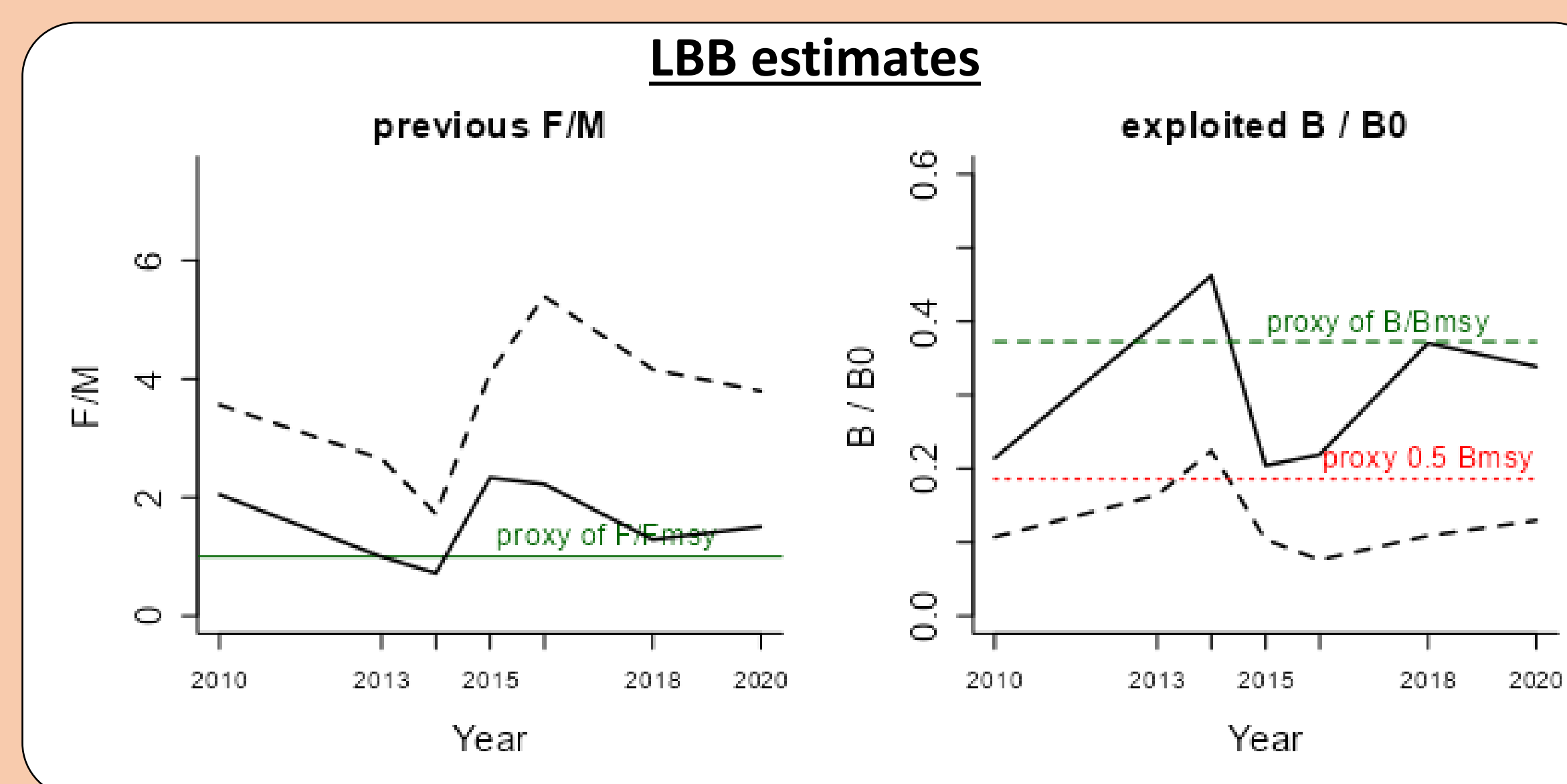
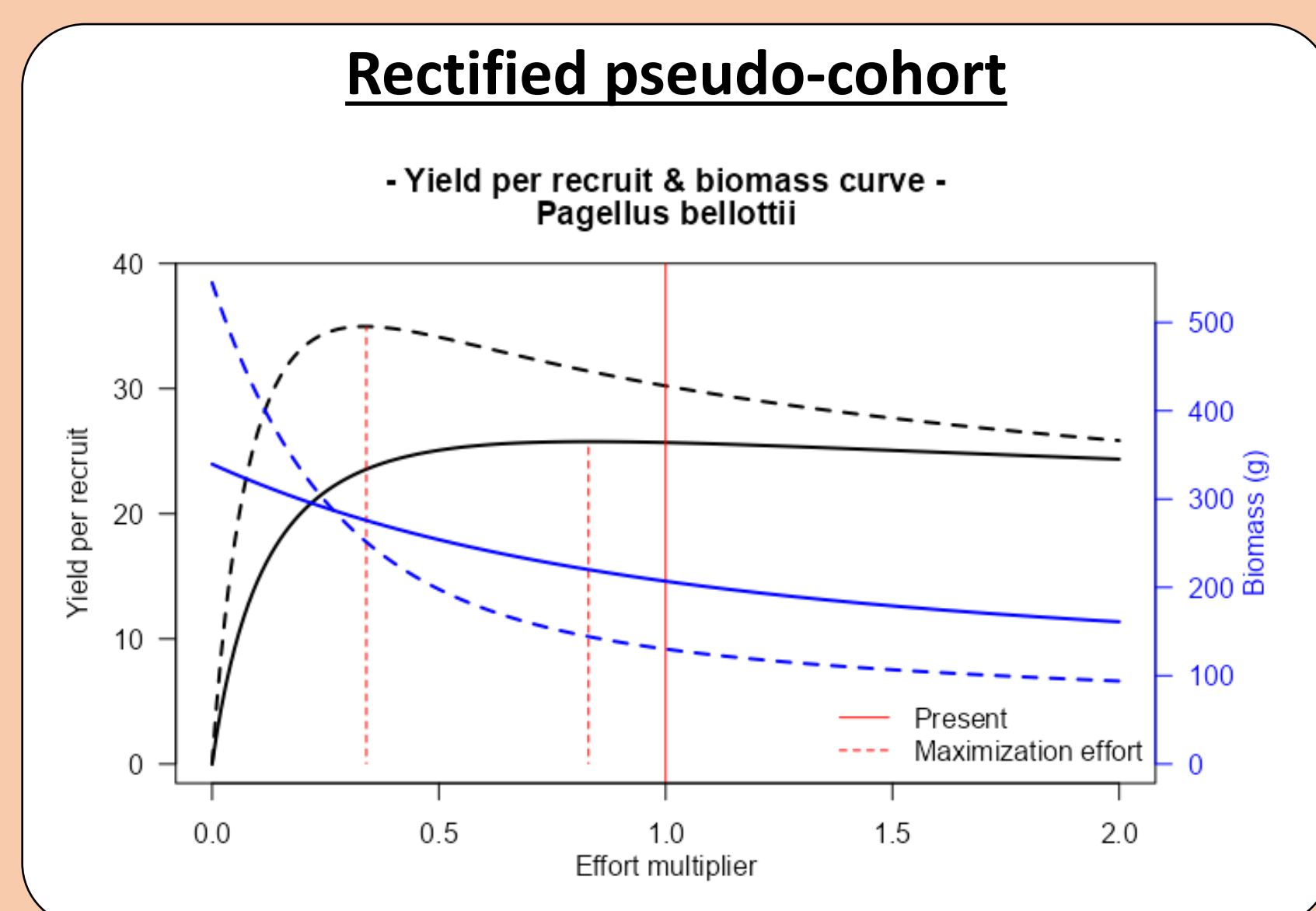
Stock assessment



A growth law is estimated from the DEMERSTEM project data (solid line) and compared to the results obtained by Kouame (2016) in Côte d'Ivoire (dashed line).

3 Results

Complementary methods sensitive to input data : exemple of VGBF



Depending on the growth law applied (solid line, dashed line), both methods reveal strong variations in the estimates of the B_{MSY} and F_{MSY} proxies.

4 Conclusion

- Uncertainties on data input conduct us to reject diagnosis
- Sampling should be strenghtened to develop effective ageing methods (sclerochronology, otolithometry, marking/recapture)

