

Modelling scenarios for nutrient-sensitive fisheries management

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Chapter 1

Content

This book contains analyses and reports of the paper '*Modelling scenarios for nutrient-sensitive fisheries management*'.

All data and code to generate the analyses are organised in <https://github.com/WorldFishCenter/timor.nutrients>.

Chapter 2

Highlight statistics

2.1 Timor-Est SSF nutritional scenario

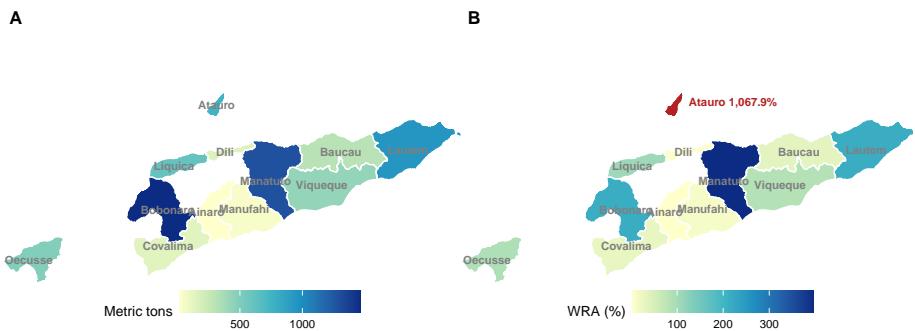


Figure 2.1: To define

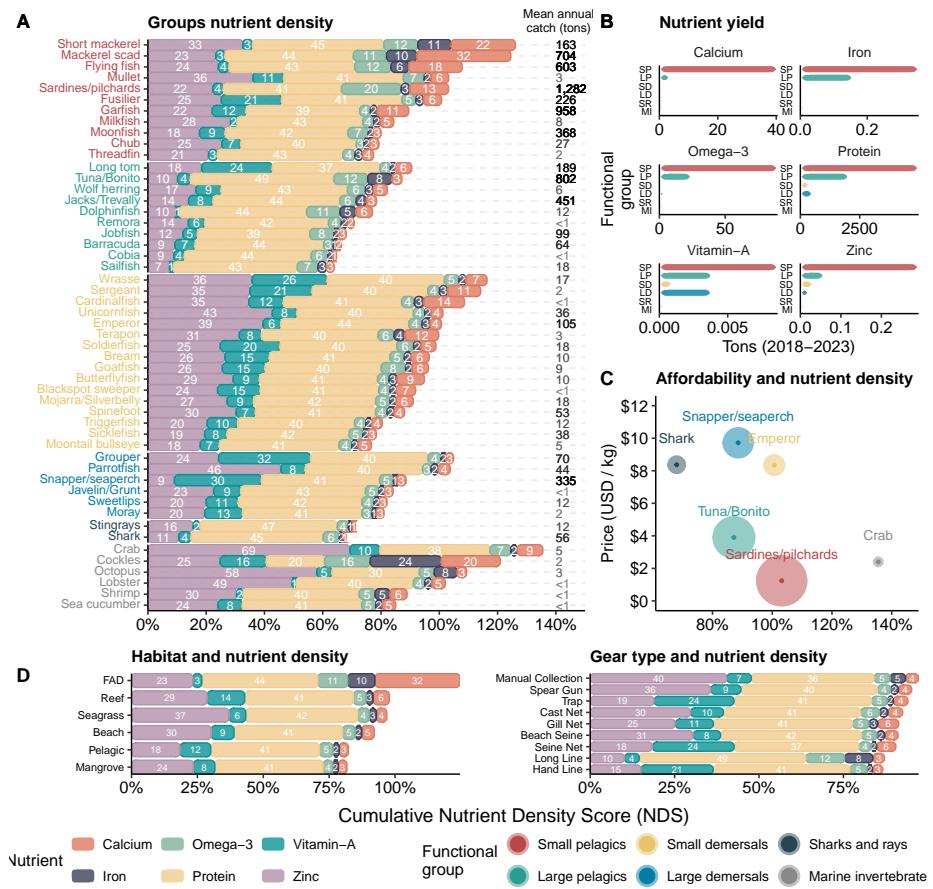


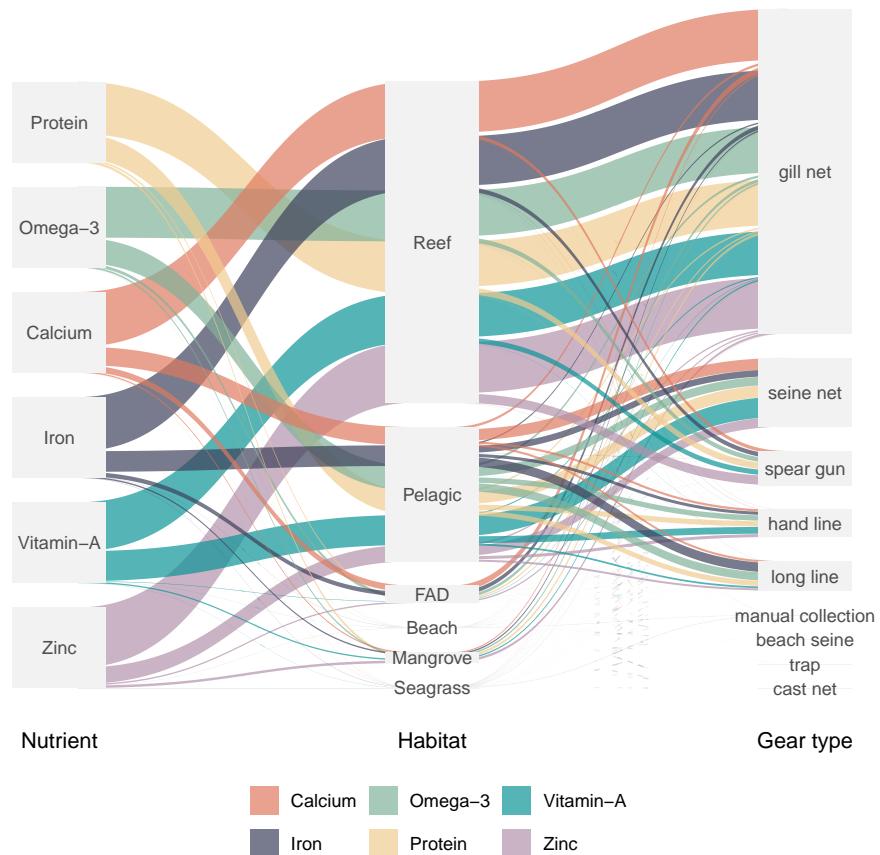
Figure 3.1: To define

Chapter 3

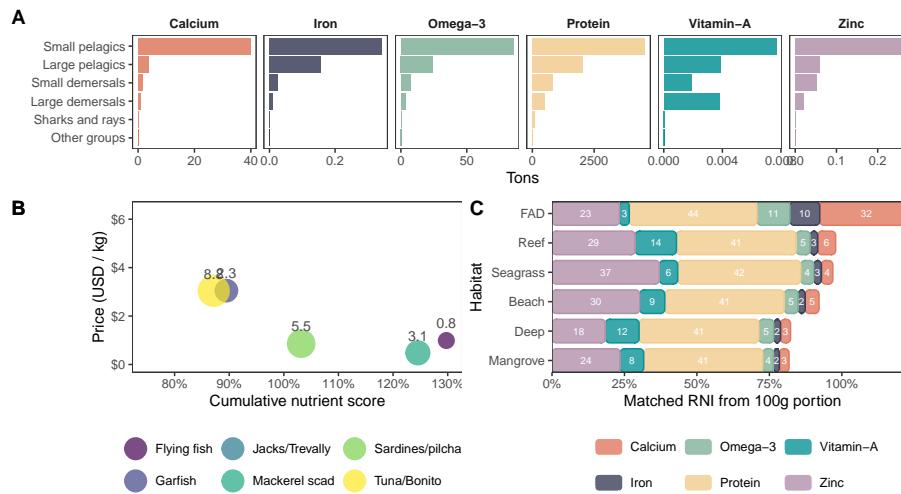
Nutrients distribution

3.1 Fish groups

3.2 Habitat and gear type



3.3 Nutritional contribution and economic profiling

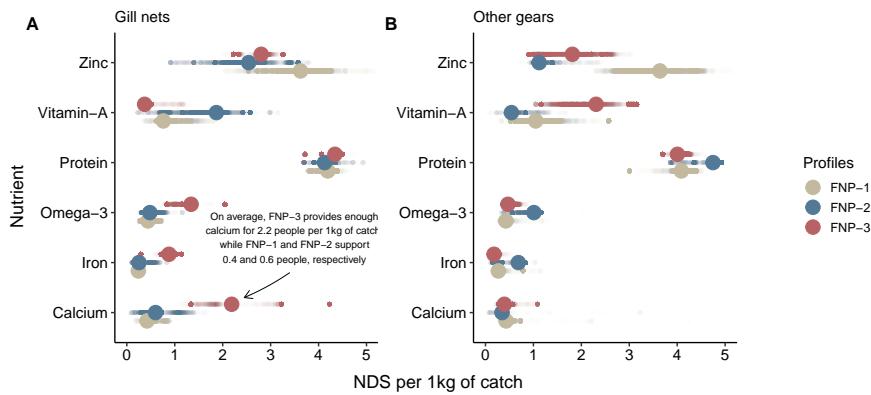


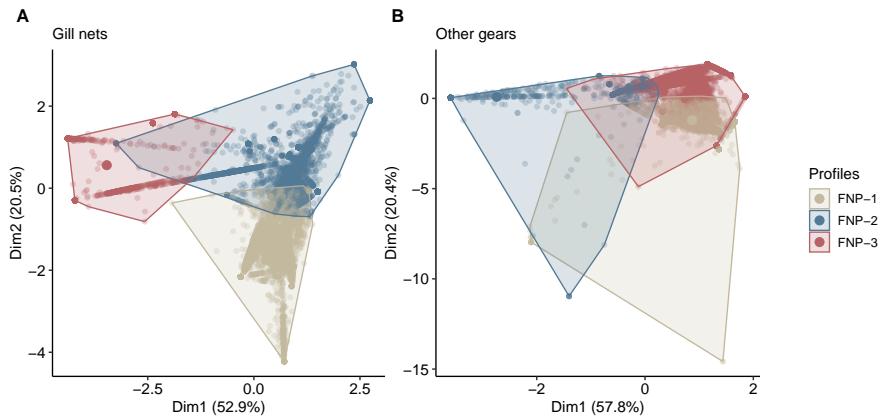
Chapter 4

Timor SSF nutritional profiles

4.1 Methods

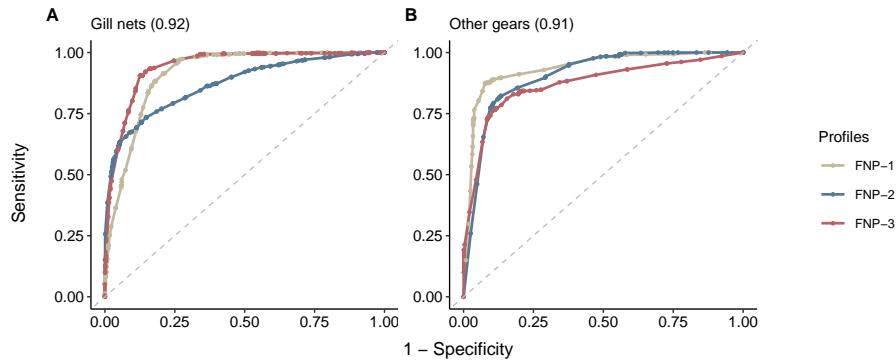
```
## Warning in get_plot_component(plot, "guide-box"): Multiple components found; returning the
## first one. To return all, use 'return_all = TRUE'.
```





SUBSET	TERM	DF	SUMOFS
▼ mainland_GN (3)	clusters	2	12464.9
	Residual	10168	5914.5
	Total	10170	18379.4
▼ mainland_AG (3)	clusters	2	9487.8
	Residual	5479	3303.1
	Total	5481	12790.9

4.1.1 XGBoost model performance



METRIC	OTHER GEARs	GILL NETS
roc_auc	0.91	0.92
accuracy	0.8	0.76
kap	0.7	0.62
sens	0.81	0.77
spec	0.9	0.88
ppv	0.8	0.74
npv	0.9	0.87
mcc	0.7	0.62
j_index	0.71	0.65
bal_accuracy	0.86	0.82
detection_prevalence	0.33	0.33
precision	0.8	0.74
recall	0.81	0.77
f_meas	0.8	0.75

4.1.1.1 Models explanation

