Modelling scenarios for nutrient-sensitive fisheries management

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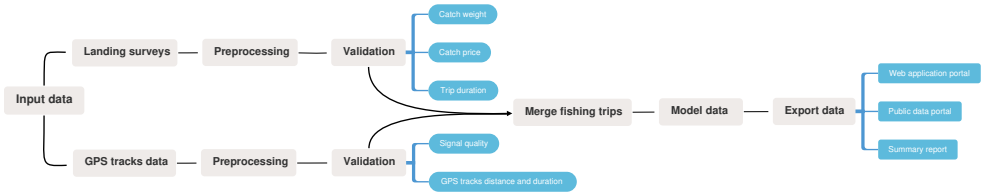
1 Data pipeline



2 Data summary

2.1 Regions' temporal coverage

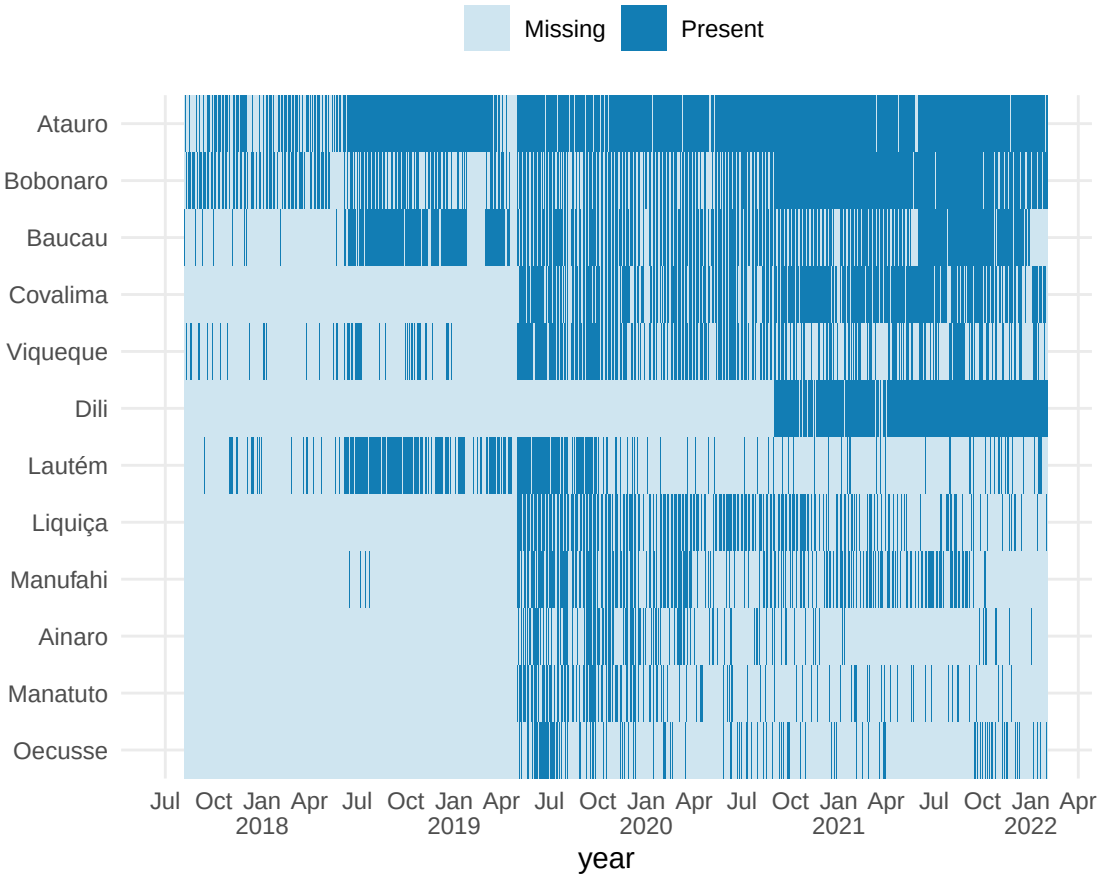


Figure 1: Temporal coverage of each municipality on a daily scale.

Atauro, Bobonaro, Bacau and Covalima are the most complete. I'll filter the following analyses on these 4 municipalities and consider the period Jun 2019 - Feb 2022.

3 Nutrients seasonality

Let's start visualizing seasonal patterns in total weight and nutrients:

Figure 2: Seasonal distribution of catch weight and nutrients. The values are normalized on the number of trips of each municipality indicating the average monthly yield independently from the sample size.

There is something strange with Baucau values. That something to focus on. At the moment leave it apart and continue with other municipalities.

Figure 3: Seasonal distribution of catch weight and nutrients. The values are normalized on the number of trips of each municipality indicating the average monthly yield independently from the sample size.

4 Catch composition

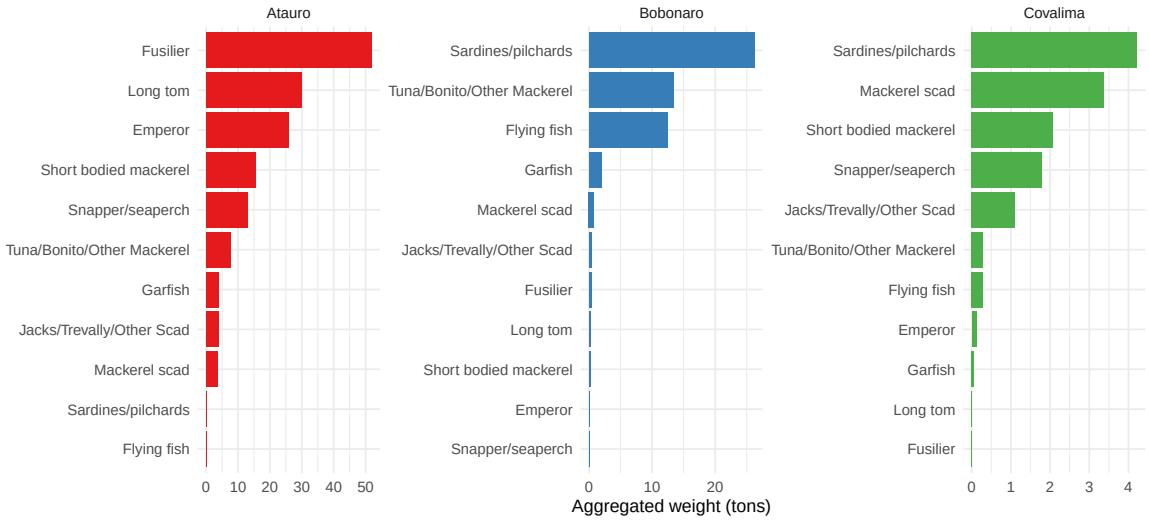


Figure 4: Aggregated stock of the 10 most important species in each municipality.

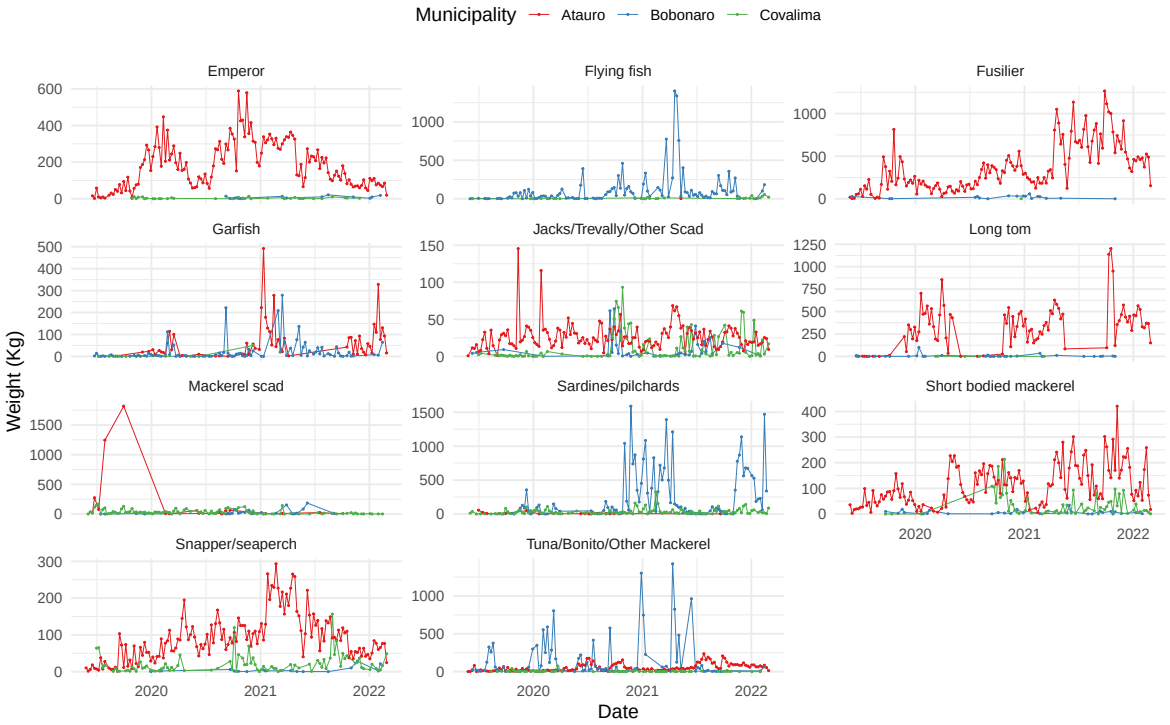


Figure 5: Interannual distribution of weekly aggregated values of the 10 most important species.