

Future Seas Econ Report

Felipe Quezada

4/12/2021

Introduction

This is a weekly report for the Economic group of the Future Seas Project. I downloaded PacFIN data publicly available in <http://http://pacfin.psmfc.org/>, and processed it. The data has a panel data structure, where we observe CPS species over time.

Descriptive statistics

Table 1 shows descriptive statistics for each variable in the dataset:

Table 1: Descriptive statistics.		
	Mean	Std.Dev
Landings	5083.97	10662.78
N_dealers	20.22	15.23
N_vessels	41.95	38.53
Price	0.14	0.25
Revenue	1519504.76	4775305.47

Mean

Mean revenues by species are shown in Figure 1, while mean landings by species are shown in Figure 2:

Time Series

Figure 3 shows landing over time by species, while Figure 4 shows landing v/s prices over time for Pacific Sardine.

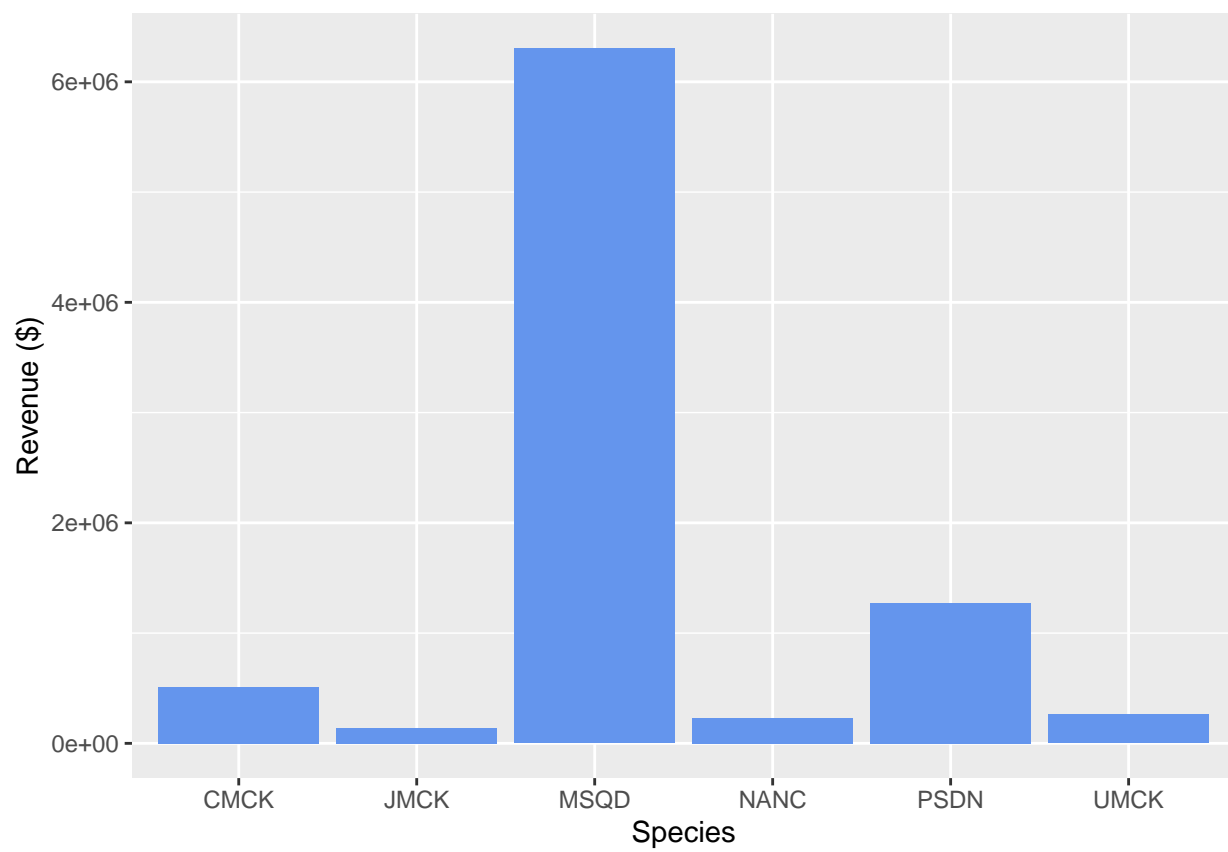


Figure 1: Mean revenue by species. 1981-2021

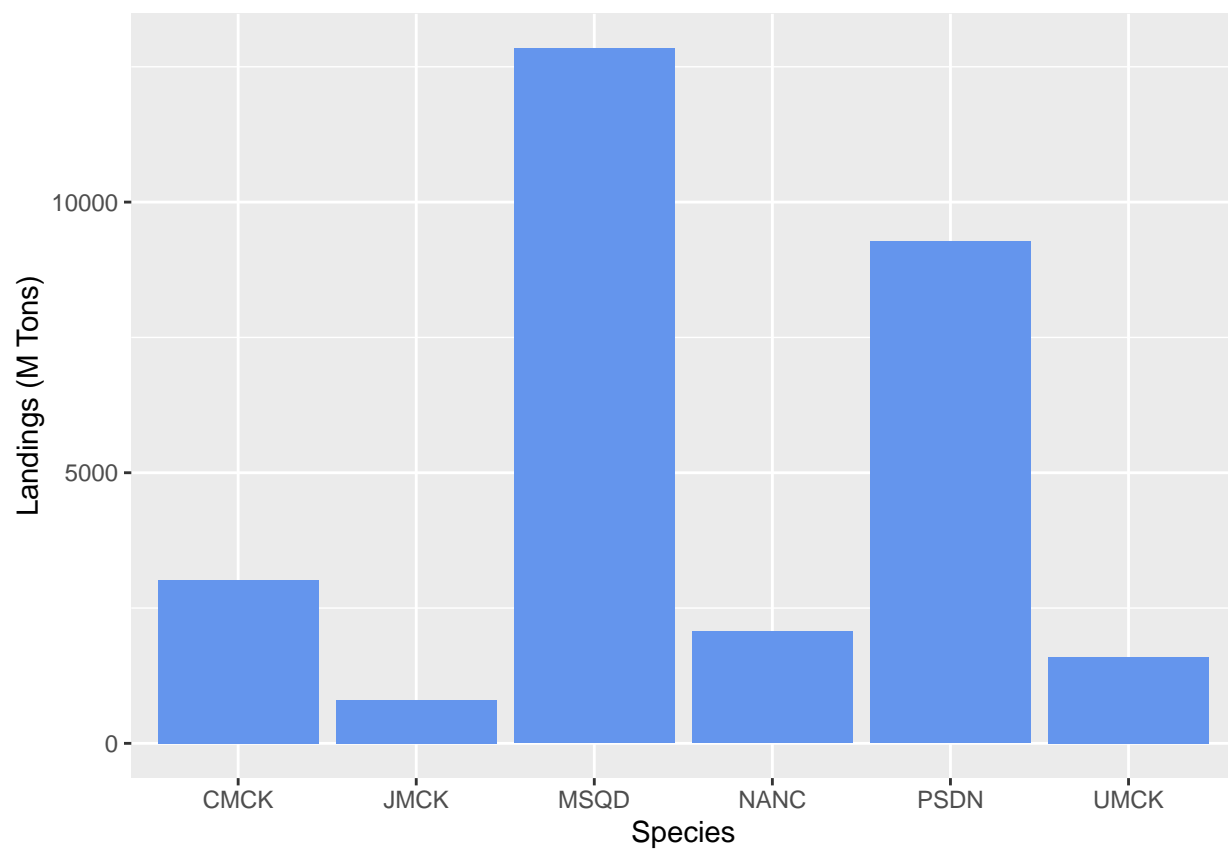


Figure 2: Mean landing by species. 1981-2021

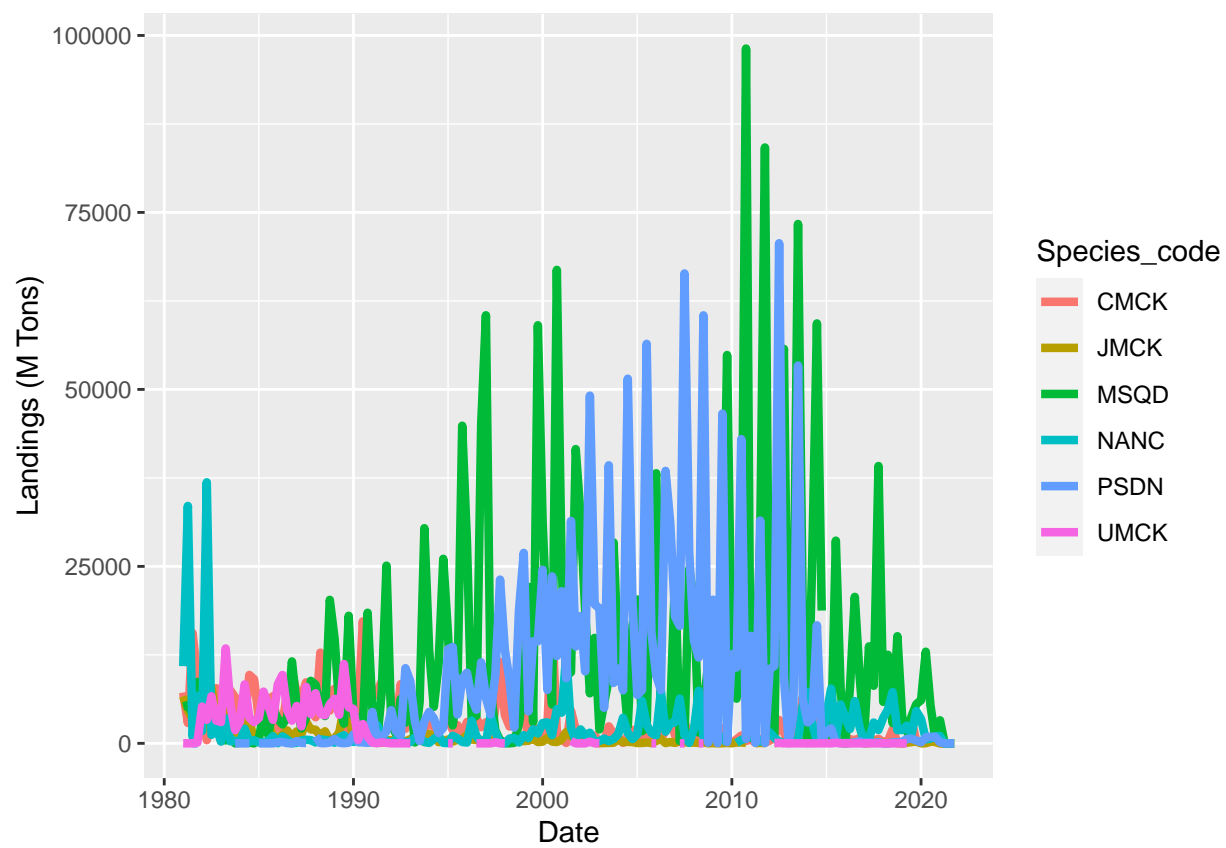


Figure 3: Landing by Species.

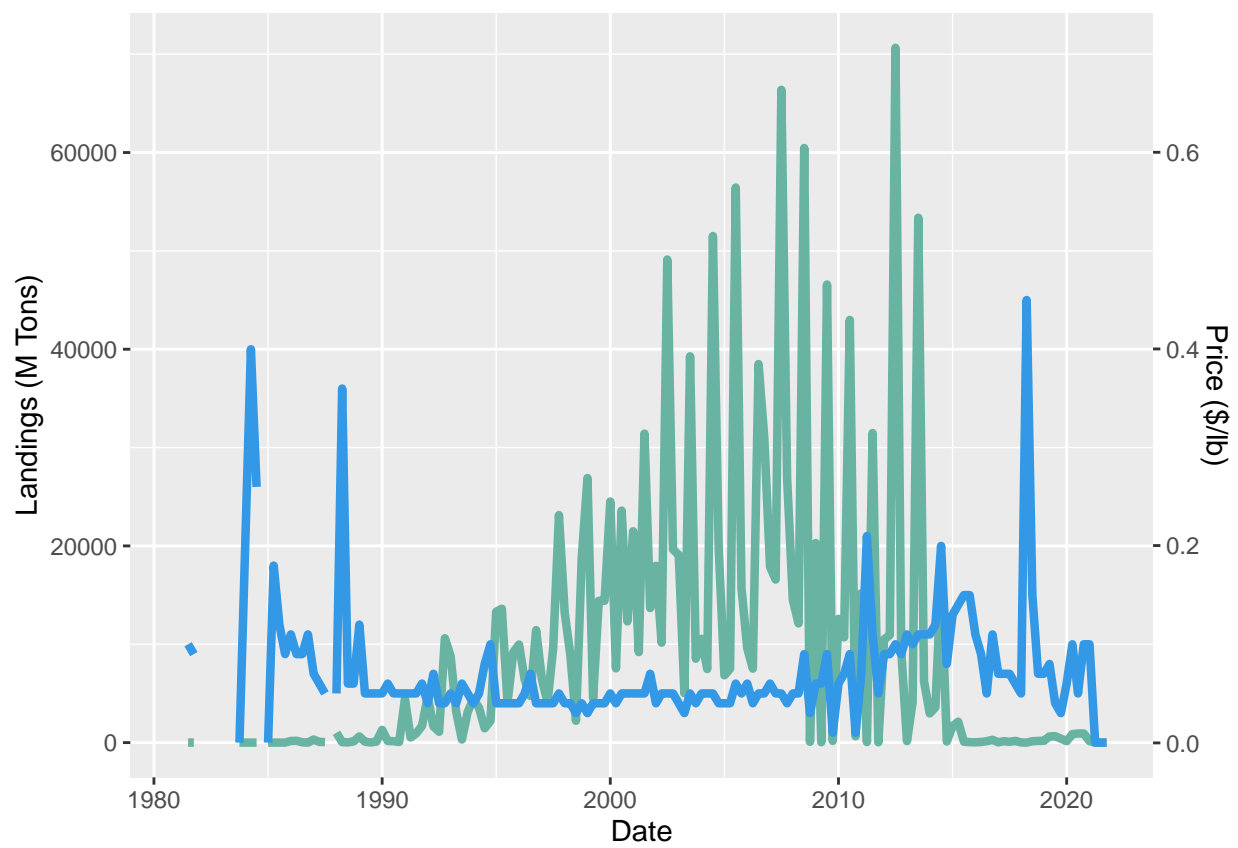


Figure 4: Landing v/s Prices. Pacific Sardine.

Preliminary estimations

Table 2 shows preliminary estimations using landing as outcome variable. **Note: Heriarchal effect by specie?**

Table 2: Fixed-effect model for Landings			
	Model 1	Model 2	Model 3
N_vessels	220.29*** (18.79)	113.74*** (8.85)	
N_dealers	-306.29*** (47.95)		192.44*** (23.69)
Price	329.64 (1286.30)	832.50 (1311.59)	-92.23 (1378.50)
R ²	0.19	0.16	0.07
Adj. R ²	0.18	0.15	0.06
Num. obs.	921	921	921

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$