**PRIORITY ISSUES**

# Models setting

## Blocks selectivity in acoustic survey with double normal options (20).

## Use watage data input in the model. When using this option there is no convergence.

# DATA

There are different time series of landing:

1. Official landing from national fishery service between 1992-2021.
2. Landing corrected from management committee (stakeholder) from 1993-2015.
3. Landing corrected from scientific commit from 2002-2019.

At the moment the scientific committee uses the base model stock assessment with the official landing input. The uncertainty in the methods used to correct the time series conduct with no consensus between scientists and managers, resulting in adopting the assessment with not corrected landing.

# Test and diagnostic

With the improvement in performance in the data and model, the next step is to develop diagnostic to the model (i.e. bias, precision) and test by simulation different options of uncertainty in landing time series. With this task develop an analysis of MSE (management strategy evaluation) based on Fmsy consider that management objective is Bmsy or proxy 0.4 Bo and the limit 0.2Bo and recommend TAC.

# Schedule

4.1. December:

- Improve data input Catch-at-age composition fleets and a survey by increasing age group (i.e. 1 to 14).

- Check biological parameters and settings.

- Test setting to improve acoustic biomass by the change in catchability and selectivity.

January - February (mainly holiday in Chile).

# Meeting

- Coordinate a meeting (Talcahuano, Chile or Seattle, USA ) in May or June 2022 (1 week) to work in model setting and improvement of statistic performance in the model. Furthermore, generate some simulation tests and project different exploitation strategies in order with the management objective in the Chilean hake.