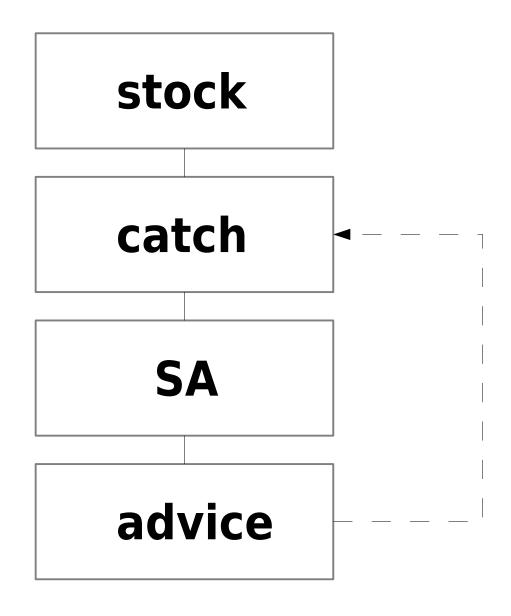
What is MSE

lago Mosqueira

July 12, 2012

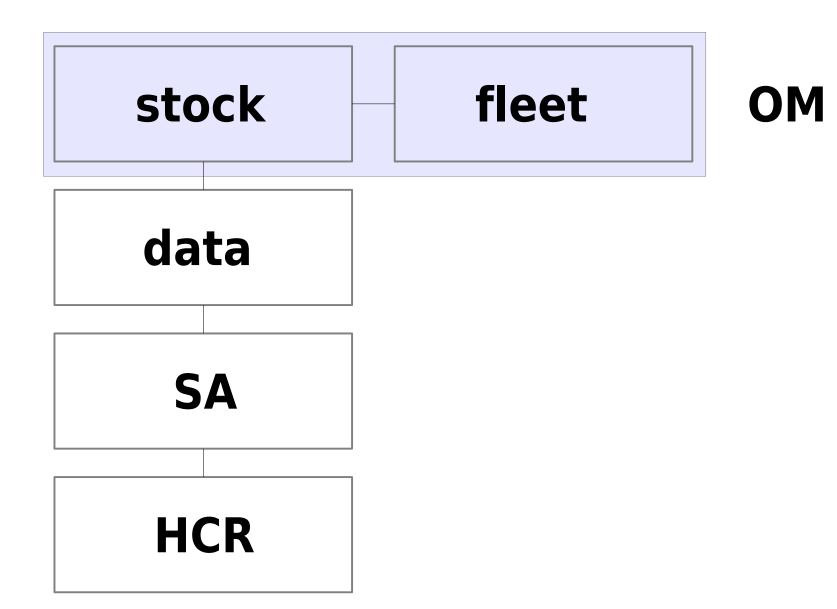




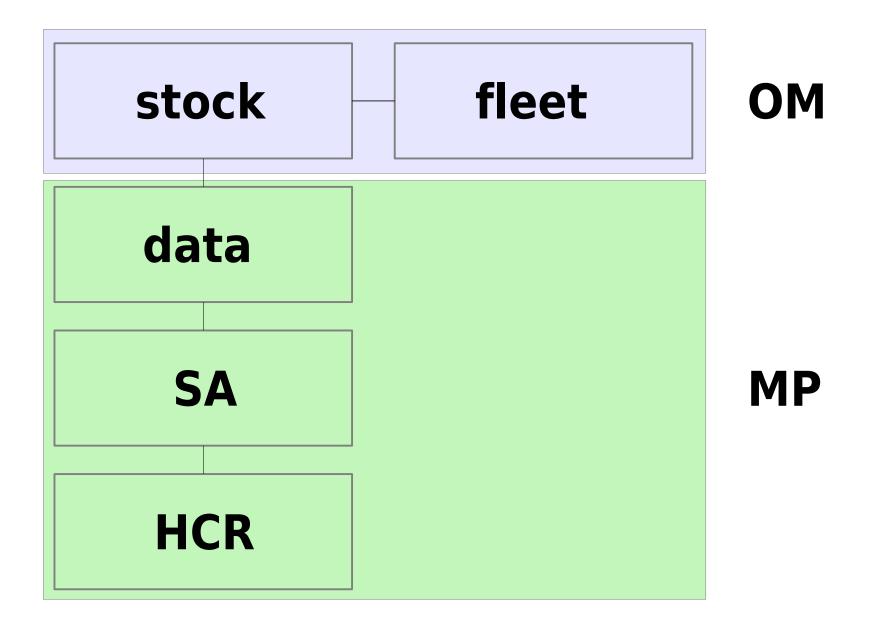
stock data SA **HCR**

fleet

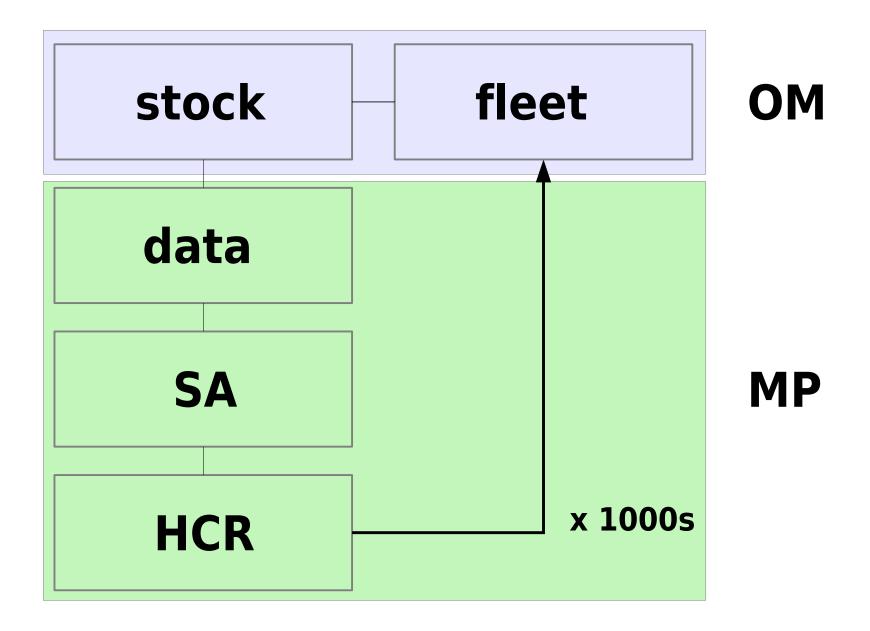






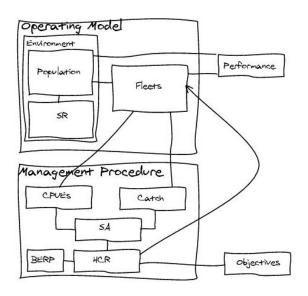








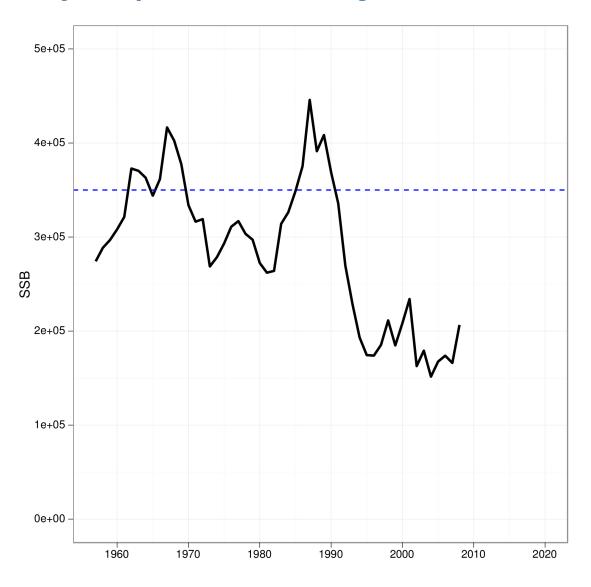
Fishery system model



Steps to MSE

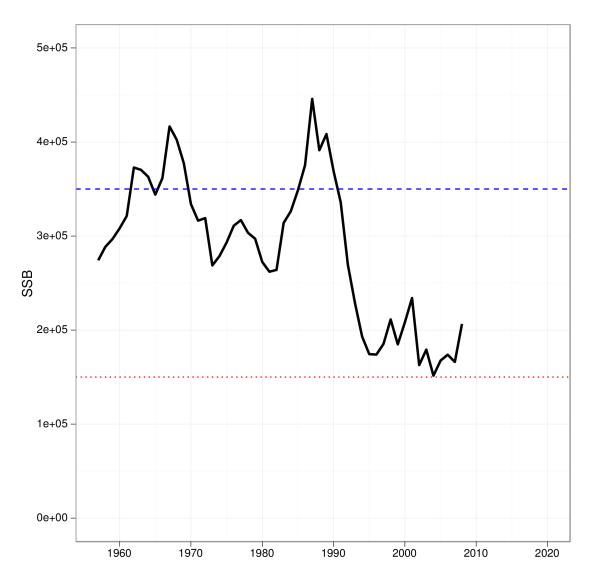
- Define and agree on objectives & limits
- Translate them into performance indicators
- Identify appropriate Management Procedures
- Define a set of Operating Models
- Conduct simulations
- Summarize performance
- Select best MP

Specify & prioritize objectives ...



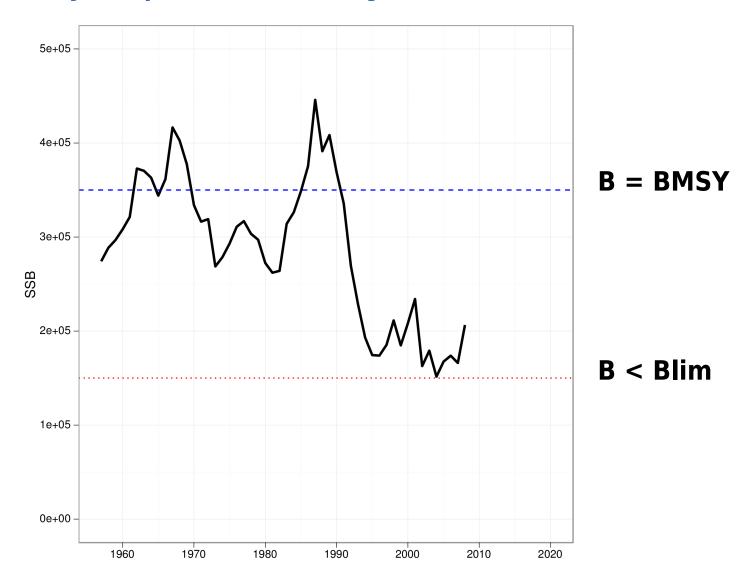


Specify & prioritize objectives & limits

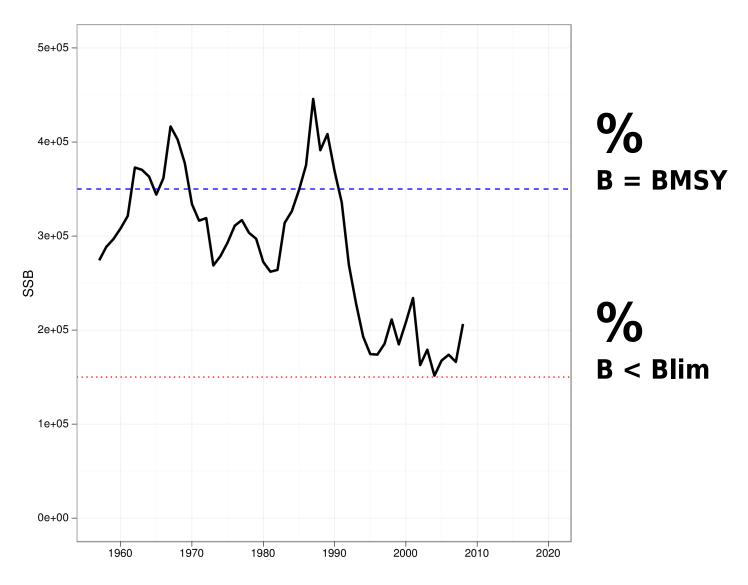




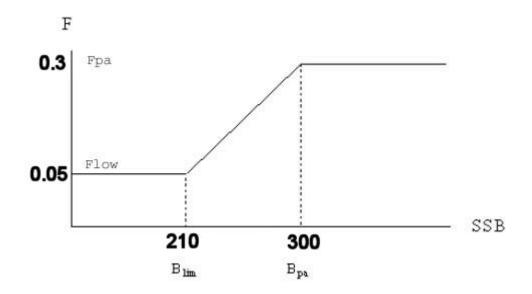
Specify & prioritize objectives & limits

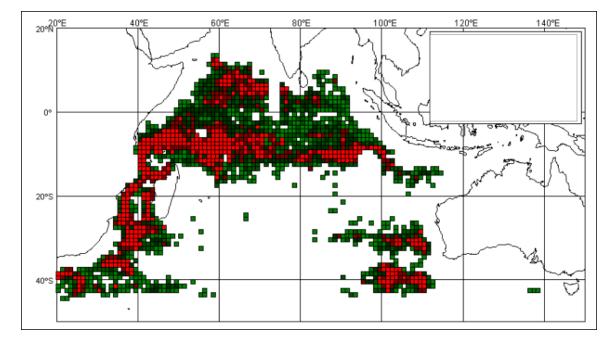


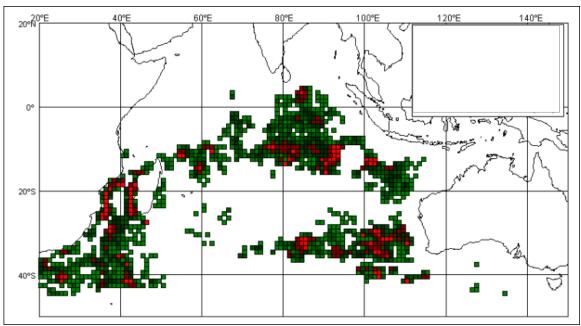
Quantify **performance** measures

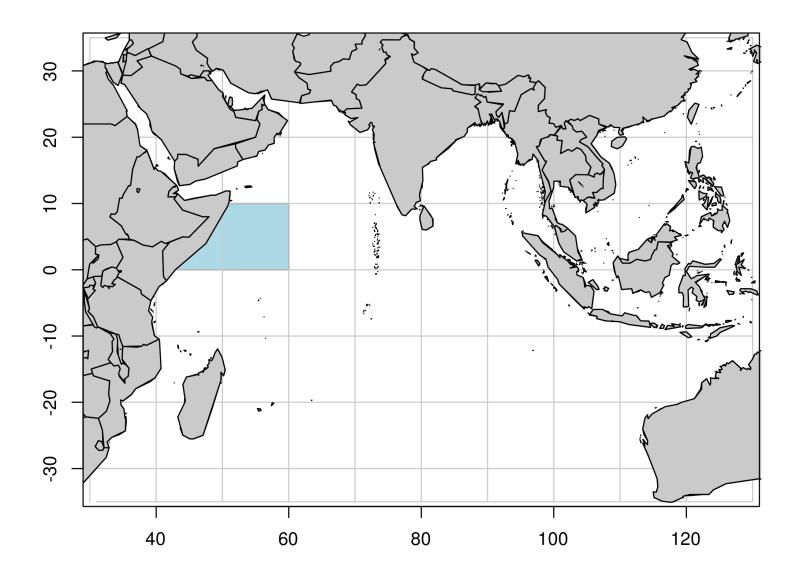


Identify Management Procedures

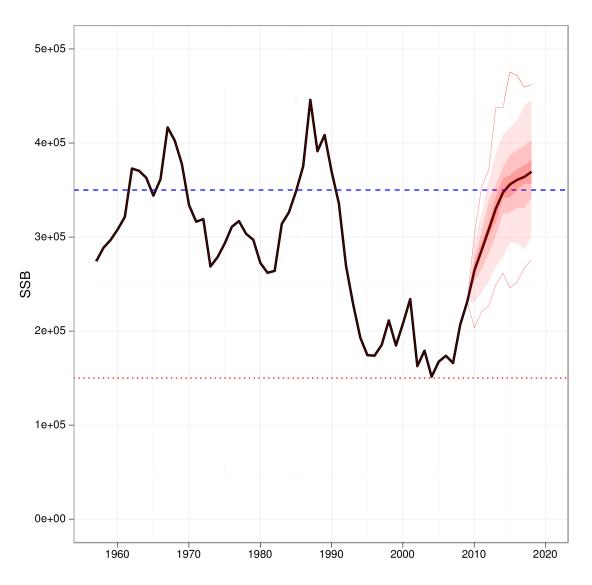






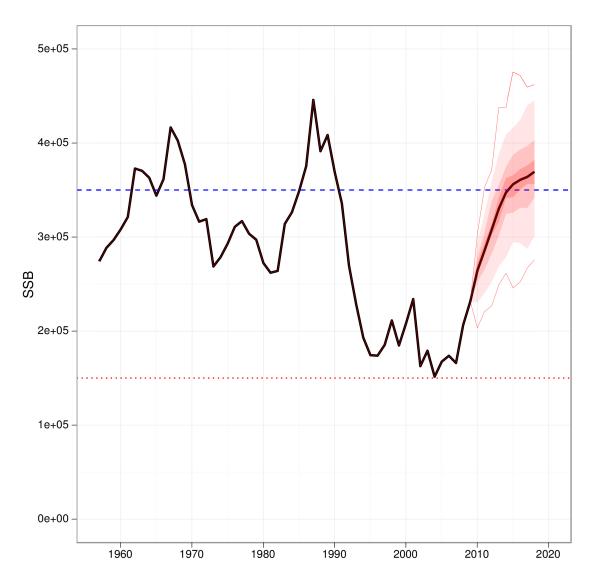


Conduct simulations





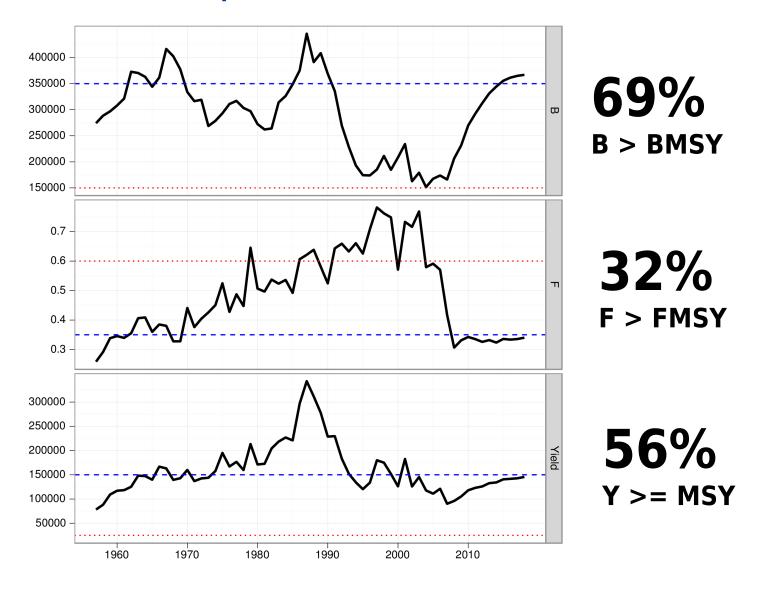
Conduct simulations



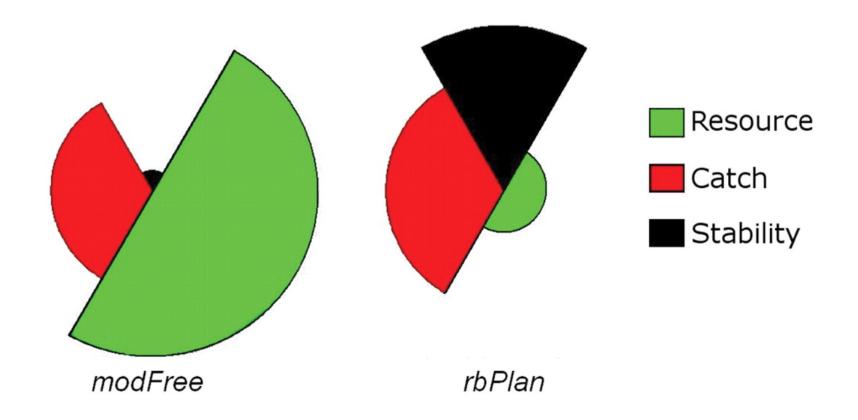
69% B > BMSY

0% B < Blim

Summarize performance of MPs



Select best MP









Avoid yearly variability in SA

Long-term trade-offs

Less haggling

No 'wrong' best assessment

Default decision

Risk on board

Consistent with PA

Interaction across the table

Lengthy development

Overly rigid

Autopilot

Data still essential

Results dependent on model

Some references

• ICES JMS Vol. 64 Issue 4 MSE Symposium

http://icesjms.oxfordjournals.org/content/vol64/issue4/index.dtl

- IWC Revised Management Procedure
- AUS 4-tier fisheries management system