

Short-term prediction

fish5107stockpred Prediction of stock and catch

Gunnar Stefansson

December 19, 2016

Issues in short-term predictions

Issues in making short-term predictions:

- Initial stock size
- Recruitment

Goals with short-term predictions

Goals with short-term prediction:

- Predict catch and stock development
- Identify a catch level which does not reduce the stock

These should be completed with 90% probability.

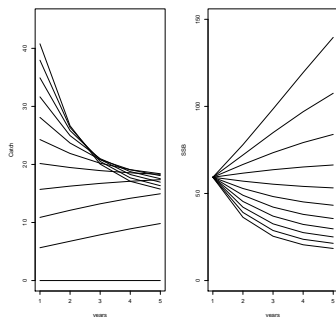


Figure : Comparing catch and stock projection for F from 0 to 1.

Adding uncertainty

Assessment uncertainty
Recruitment uncertainty

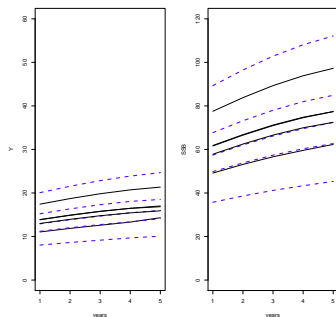


Figure : Example of short-term prediction of SSB trend with uncertainty in initial stock size and recruitment.