

Evaluating procedures for updating catch advice between stock assessments of reef fishes with management strategy evaluation

Nikolai Klibansky, Shannon Calay, Rob Cheshire,
Cassidy Peterson, Kyle Shertzer, Erik Williams, and Matt Vincent

Southeast Fisheries Science Center,
National Marine Fisheries Service, NOAA,
101 Pivers Island Road, Beaufort, North Carolina, 28516, USA

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Abstract

We built operating models for three reef fish species from the US Southeast Atlantic, based on recent stock assessments. We developed 10 scenerios and 13 management procedures. Management procedures varied in terms of how often stock assessments were conducted, and how catch advice was adjusted between stock assessments.

INTRODUCTION

We can only do stock assessments every few years. It would be nice to know if there were ways that we could adjust catch advice between stock assessments to improve.

MATERIALS AND METHODS

We used the most recent stock assessments from US Southeast US Atlantic for Red Porgy, Black Sea Bass, and Vermilion Snapper.

0.1 Evaluating management procedures

RESULTS

DISCUSSION

Some broad conclusions

Which factors seem to account for the most variation in results in general?

- Above all, results differ between operating models (i.e. species)
- Scenario is the next most important factor, particularly depletion scenarios and regime change

ACKNOWLEDGEMENTS

We thank everyone.

LITERATURE CITED

TABLES

FIGURES

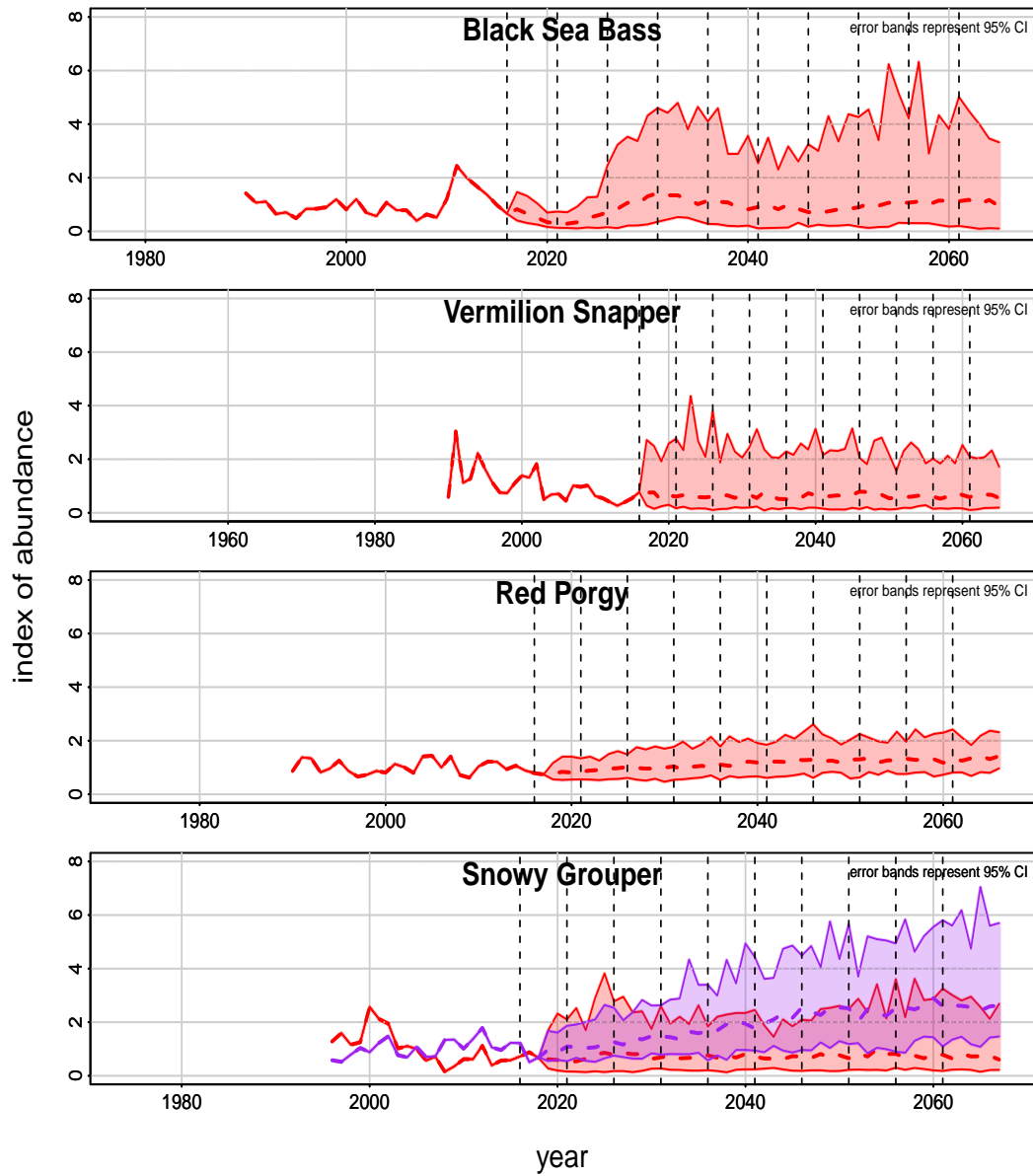


Fig. 1 Indices derived from BAM stock assessments available during the projection period, for the SCA.5 MP in the Base scenario. Shaded areas represent 95% CI for indices among simulation runs.

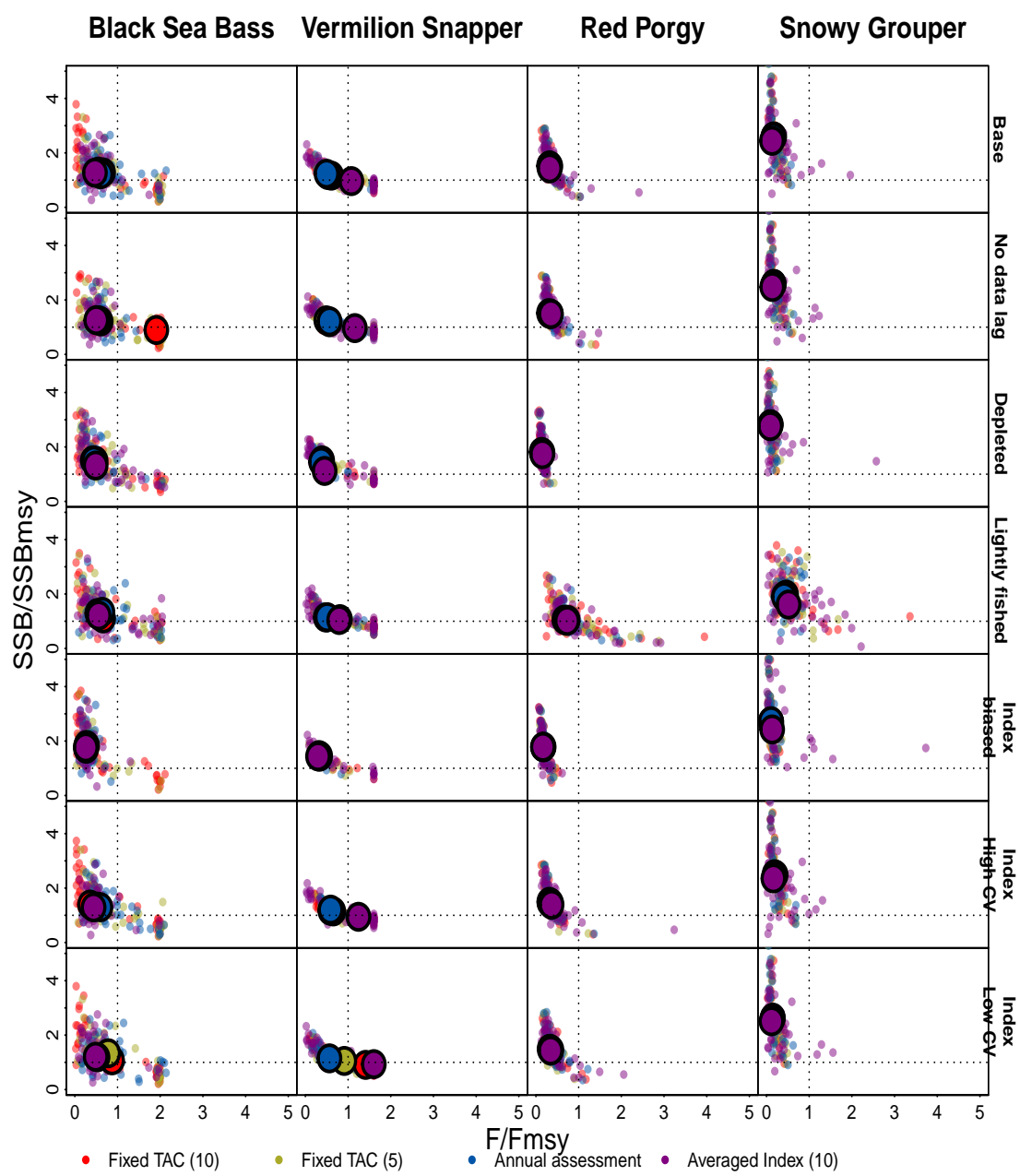


Fig. 2 Phase plots for the base scenario and the first set of experimental scenarios