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Executive Summary

Let's summarize the key points of this report.

1 Introduction

Standardized catch-per-unit-effort (CPUE) indices provide essential data for fisheries stock assessments by tracking relative abundance trends over time ([Maunder & Punt, 2004](#)). blah blah blah.

1.1 Study Objectives

Let's do something interesting here. blah blah blah. see if this works. xyz

2 Methods

2.1 Data and Study Area

3 Results

3.1 Model Convergence

Please converge!

4 Discussion

4.1 Model Performance and Selection

Model performance was evaluated using Akaike's Information Criterion (AIC) and Bayesian Information Criterion (BIC). The selected model demonstrated superior fit compared to alternative specifications, as indicated by lower AIC and BIC values. Residual diagnostics confirmed the adequacy of the model, with no significant patterns observed in residual plots.

5 Conclusions

Let's wrap things up here.

Acknowledgments

We thank everyone who contributed to this work.

References

Maunder, M. N., & Punt, A. E. (2004). Standardizing catch and effort data: A review of recent approaches. *Fisheries Research*, 70(2-3), 141–159. <https://doi.org/10.1016/j.fishres.2004.08.002>

Table 1: Comparison of different models..

| Model | Description | AIC | Δ AIC | Parameters |
|-------|------------------------------------|----------|--------------|------------|
| M1 | Baseline Tweedie (SC17 covariates) | 398784.7 | 3832.1 | 89 |
| M2 | M1 + Blue shark catch proportion | 394952.6 | 0.0 | 90 |
| M3 | M1 + Sea surface temperature | 398741.9 | 3789.3 | 92 |

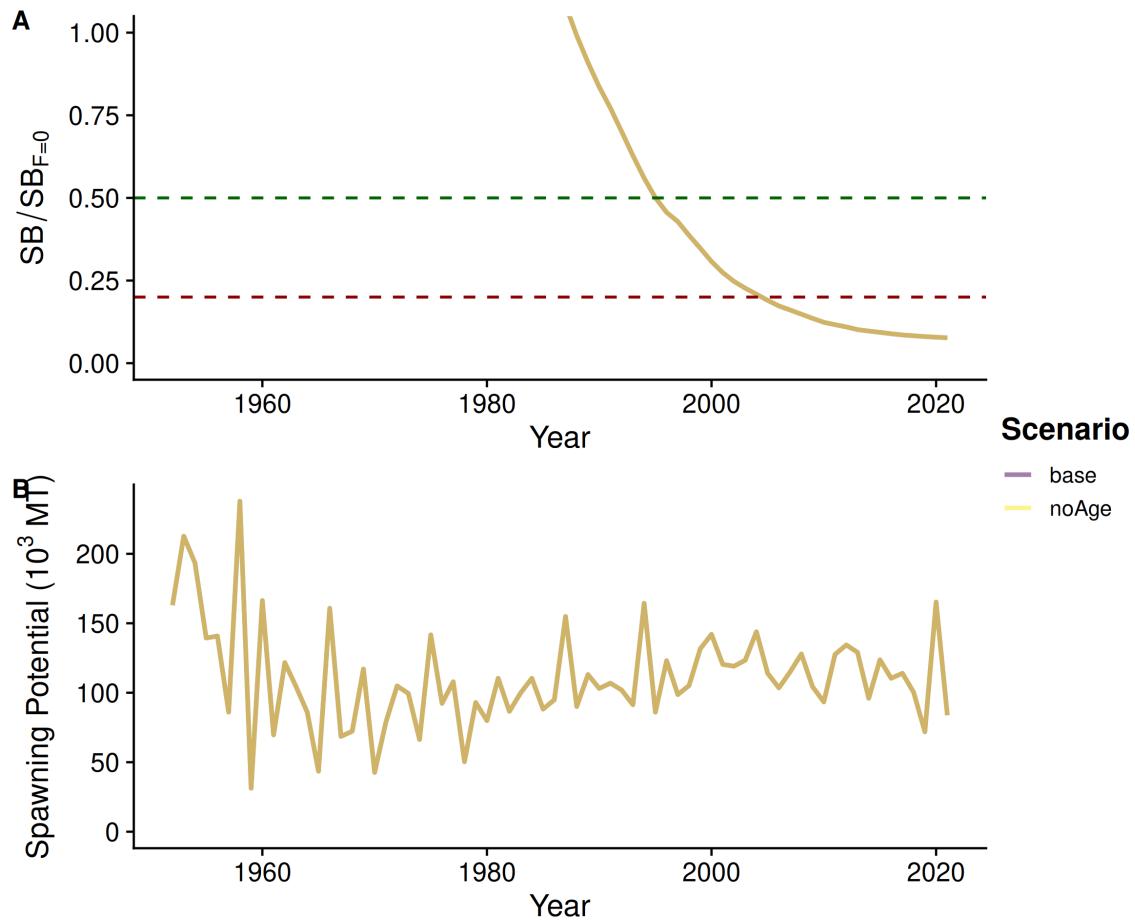


Figure 1: Depltion plots...