

Impacts of fisheries-dependent spatial sampling patterns on index standardization: A simulation study and application to the Japanese pole-and-line fishery

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Abstract

Blah blah blah...

Keywords: Spatial sampling, spatiotemporal models, CPUE, fisheries dependent data

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1. Introduction

2. Methods

3. Results

4. Discussion

5. Acknowledgments

References

- Kopf, R. K., Davie, P. S., Bromhead, D., & Pepperell, J. G. (2011).
Age and growth of striped marlin (*Kajikia audax*) in the Southwest
Pacific Ocean. *ICES Journal of Marine Science*, 68, 1884–1895.
10 URL: <https://academic.oup.com/icesjms/article-lookup/doi/10.1093/icesjms/fsr110>. doi:10.1093/icesjms/fsr110.
- Piner, K., & Lee, H. (2011). *Meta-analysis of striped marlin natural mortality*. Technical Report ISC/11/BILLWG-1/10.