Keywords: Fishery, Ground shes;Flat shes

Introduction

 e two main informational sources that   sheries scientists employ to analyse population distributions through time and space are data that are independent of the   shery and data that are dependent on the   shery. Depending on the approaches used, each has bene ts and drawbacks; but, when used in tandem, they are useful for the management of various   sheries. Because locations are not always accurately or at all documented by   sheries-dependent sources and because   shery-dependent data are a consequence of   shery behaviour, mapping of species distributions for several regions is only reliable when employing   shery-independent data. Because of the inherent biases present in   shery-dependent data, visualisation and mapping are more challenging in areas where   sher's consistently record location data, as opposed to   shery-independent data, which are standardised and have a scienti c sampling design built in Fishery-independent surveys

Conﬂict of Interest Statement

ﬁe author aﬃrm that they have no known ﬁnancial or interpersonal conﬂicts that would have appeared to have an impact on the research presented in this study.

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