

Spatiotemporal modelling of marine recreational angling using data from a smartphone application

Understanding marine recreational fishing catches is important for the sustainable management of fish stocks, but collecting data using traditional survey methods is often difficult and expensive. Data from smartphone applications are becoming increasingly available and could supplement traditional data collection. However, app users are not representative of all anglers, so it is necessary to understand the utility and potential uses of app data. Fishbrain (<https://fishbrain.com/>) is a smartphone application for angling, with a community of millions of individuals who record and share their catches. I will present the results of spatiotemporal models fitted using integrated nested Laplace approximation with the 'inlabru' package in R, using catches around the UK recorded in Fishbrain, and discuss some challenges and limitations of the data.