CENTRE FOR BIODIVERSITY AND ENVIRONMENTAL

RESEARCH

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The British Ecological Society

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Ref: **MEE-14-09-583**

Dear Dr. Vamosi,

Please find attached our resubmission of MEE-14-09-583 "*A generalised random encounter model for estimating animal density with remote sensor data*" by Tim C.D. Lucas, Elizabeth A. Moorcroft, Robin Freeman, Marcus J. Rowcliffe, and Kate E. Jones () and the electronic supplementary material ().

We have revised the manuscript in light of comments from both referees and have included a point by point response to their comments (Lucasetal\_090115\_response.docx). Our revision includes an additional discussion of other analytical methods used to estimate density putting the gREM into more context, more details about what information is required by the gREM, and clarifications about the gREM method and its applicability. We have also added new simulation results examining the impact of parameter error on the accuracy and precision of the gREM.

Looking forward to hearing from you soon.

Best wishes,



Prof. Kate E. Jones

Chair of Ecology and Biodiversity

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