

Interactive comment on “King George Island ice cap geometry updated with airborne GPR measurements” by M. Rückamp and N. Blindow

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First of all, we would like to thank both reviewer’s for their careful reading of the manuscript and their helpful and constructive comments. Their suggestions are really appreciated and helped a lot to improve the manuscript.

General remarks:

1) We fully agree with the reviewer’s, that the manuscript lacks in the presentation and description of errors (e.g. area and volume). We will take care of this in a revised version (to be submitted after this response).

2) As the Reviewers has several comments concerning the presentation of the data coverage, and hence questions, we will provide an improved figure showing the used

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data sets. Therefore, we will separate the data sets and plot in an updated Fig. 2a) ice surface topography profiles (DGPS) and Fig. 2b) ice thickness/bedrock topography profiles (GPR). Additionally, the data sets from the different campaigns are will be color coded to show the temporal coverage. We hope that clarifies the data coverage and, in particular in which parts the DEM's are based on data and where we used extrapolation.

3) The specific comments have been addressed and in almost all cases we followed the reviewer's recommendation (to be found in the supplement to this comment).

4) The English spelling of the manuscript will be corrected by a native speaker. In the supplement, we quote the reviewer's comments followed by our replies in bold typesetting.

'Done.' denotes that this point will be solved. This could be that it has been either done directly, or that due to other changes the point does not arise any more, or that the point has been answered at another place in this text already.

Please also note the supplement to this comment:

<http://www.earth-syst-sci-data-discuss.net/4/C76/2012/essdd-4-C76-2012-supplement.pdf>

Interactive comment on Earth Syst. Sci. Data Discuss., 4, 123, 2011.

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