Interactive comment on "Automatic parameterization for magnetometer zero offset determination" *by* M. A. Pudney et al.

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We would like to thank A. Marussenkov and the two Anonymous Referees for their valuable comments about our paper.

In response to the comments made by Anonymous Referee #1, we agree about the changes to the use of the word offset and have changed the text accordingly. We have also revised our definition of MCS and the figure legend as suggested.

In response to the comments made by Anonymous Referee #2 regarding the variation of the window length, we have discovered that it will not be necessary to shorten the window length at all. We find such measures need only be used if the total data length is too small (2-3 hours as opposed to 24 in a daily dataset). We agree that such a

method would increase the risk of a false MCS being selected. Therefore the original method we have proposed can be used in all cases, except where the daily dataset is grossly incomplete. We agree that the analysis of Cassini data would be beneficial and suggest it for further work in the future.

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