

## Reply to Short Comment 1

The paper is well written and explained. The analyses justifying the results are properly mentioned and explained.

Thanks for the positive feedback.

However, Appendix A needs to be written more comprehensively. Now it is just a bare minimum explanation. Also the mathematical formulation of the equation used in the appendix are not that clear. Readers will have difficulty in understanding the equations and the way they are written. The relationship between TMR and D is not very clear. This needs to be addressed.

Thanks for pointing this out. Appendix A has been completely rewritten in order to make it easier to understand and possibly reproduce the results. The relationship between  $T_{MR}$  and D is now made explicit.