Dear Referee #1

Thank you very much for your close reading and comments. We appreciate your request to demonstrate if and how the different methods to constrain the parameter domain, by using spatial patterns of NDII, lead to less predictive uncertainty of the models. We shall do so in the revised paper and will in due course post on this discussion forum some graphs to this effect.

In the revised paper we shall describe better what the innovations of the paper are, because this has apparently not been brought out clear enough. We shall also take your other remarks at heart and revise the paper accordingly.

Sincerely,

the authors