

# ***Interactive comment on “A mathematical approach to understanding emergent constraints”***

**by Femke J. M. M. Nijssse and Henk A. Dijkstra**

**Anonymous Referee #1**

Received and published: 25 May 2018

This manuscript is dealing with the problem of the understanding of emergent constraints in projections based on climate models. The main idea is to develop a mathematical framework based on the linear response theory. The approach is applied in the context of several models of increasing complexity. A classification of emergent constraints is also proposed. This is a very interesting approach to the problem that is worth publishing.

The organization of the manuscript is however confusing to me. Section 2 is mixing the general development of the approach and the application to an Ornstein-Uhlenbeck process. It is therefore difficult to figure out what is general or not. I would suggest the authors to reorganize this section 2 (and also section 3), by first presenting the general framework based on Response theory and then the specific application to the O-U

[Printer-friendly version](#)

[Discussion paper](#)



