

## ***Interactive comment on “Application of linear minimum variance estimation to the multi-model ensemble of atmospheric radioactive Cs-137 with observations” by Daisuke Goto et al.***

### **Anonymous Referee #2**

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I find the paper of interest, overall well balanced and presented, although too concise in some aspects that, I think, deserve more detail (see minor comments below).

I advise the editor to accept the paper for publication to ACP.

I invite the authors to deepen the discussion about the size of ensemble. as it is presented seems that the message is 'the more the better', while has been largely proven that is rarely the case (rarely in the sense that only when combining truly independent models the MME improves reliability of each single member). Please comment on that.

additional references (and reference therein) for you to consider: Atmos. Chem. Phys., 9,9471–9489 Atmos. Chem. Phys., 13, 8315–8333, 2013 Atmos. Chem. Phys., 15,

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2535–2544, 2015 Atmos. Chem. Phys., 16, 15629–15652, 2016 Atmos. Chem. Phys., 14,11791–11815

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Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2019-777>, 2019.