Interactive comment on “Constraining sector-specific CO₂ and CH₄ emissions in the United States” by Scot M. Miller and Anna M. Michalak

Anonymous Referee #1

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This paper reviews methods and datasets for estimating or constraining sector specific emissions of CO₂ and CH₄ in the US. The review paper refers to quite recent publications. The paper is well written, and I recommend publishing after the following minor comments are addressed.

Specific comments: In the introduction there should be some mentioning of INDCs (Intended Nationally Determined Contributions), which were decided during COP 21 in Paris 2015.

P3 L1-2: I suggest reformulating to “frameworks that can synergistically leverage the information content of bottom-up datasets and top-down strategies using atmospheric GHG data”

P3 L7: May be reformulate “to attribute that trend to a specific source sector(s)” to e.g. “to attribute this trend to trends in specific source sectors”

P4 L27: A reference for EDGAR needs to be included here.


P17 L17: reword “now markets and ethane analyzer” -> “now markets an ethane analyzer”