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Interactive comment on “Atmospheric constraints on the methane emissions from the East Siberian Shelf” by A. Berchet et al.

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I sincerely hope that the authors of the ms can provide a professional response to the following questions regarding the methods that lay the basis for their whole paper. 1) What mathematical method allows integration between 1700 grid cells without having a single data point within the domain? 2) What physics allows the occurrence of higher atmospheric concentrations of methane (the peaks of methane that the authors refer to) downwind as compared to upwind? 3) What method allows decreasing uncertainties in the absence of any ground-truthing (that is, without actual measurements of atmospheric methane levels up- and down-wind)? 4) What improvements could be made in assessing the contributions of different end- members to the observed integrative isotopic signature of atmospheric methane without knowing the

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isotopic signatures of the end-members themselves? Neither these nor many other questions were addressed. Instead I received wordy and irrelevant responses. Very disappointing. For details, see the attached point-by-point comments to the authors' responses

Please also note the supplement to this comment:

<http://www.atmos-chem-phys-discuss.net/15/C9638/2015/acpd-15-C9638-2015-supplement.pdf>

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 25477, 2015.

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