

***Interactive comment on “Atmospheric deposition as a source of carbon and nutrients to barren, alpine soils of the Colorado Rocky Mountains” by N. Mladenov et al.***

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I found this study to be very pertinent and although I am relatively new to the field I had a couple of question.

It was interesting to see the contribution that wet deposits can make in a remote region. Since the organic matter is so varied and from such different sources, I am wondering if there are other studies that further characterize it. Have the dust events been characterized for the contaminants present? If so, which ones persist? And have the EEMs shown any regions where these contaminants might be present? I have seen a couple of papers that trace contaminants in rain water over seasonal variation, but have there

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been others that went further to look at the concentrations found in receiving water bodies? Is it possible these contaminants are degraded by natural processes or is the dilution factor into the receiving stream too high to have any detection level?

Thank you for this very interesting contribution and I look forward to future work!

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