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Interactive comment on "Characteristics of wet carbon deposition in a semi-arid catchment at Loess Plateau, China" *by* Linhua Wang et al.

Anonymous Referee #2

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This article discussed wet carbon deposition of Loess Plateau, China (LPC), which has important scientific meaning but not well written and do not show their idea and importance of this study very clear. Here are some comments. 1. The authors do not have good definition of what is studied, "wet carbon deposition" make readers confused, which also includes particle carbon. Please change to "wet dissolved carbon deposition" for the whole article. 2. The research direction is interesting. However, the authors do not provide strong evidences the reason of doing study at LPC. Furthermore, due to the studied area is dry and have heavy dust storms, so that dry deposition should also accounts for large part, which need to be at least pointed out in detail in the article. 3. The introduction part is long and need to be cut short. Meanwhile, the logic of introduction is not clear and some similar ideas appear at

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Discussion paper

different part. It is good to cite studies have been done in China, but the author need to point out their potential connection to this study. 4. I am sorry to find that the English of this article is poor and some mistakes are made mainly because of carelessness. For instance, “stored” in atmosphere in introduction part is not a accurate expression. Meanwhile, the method of the study is not good expressed and only some samples of three months were collected, which I think is not enough to study the precipitation characteristics of study area. Furthermore, the surface of the LPC is very complex and how can you prove your study site can be looked as a representative of LPC? If not the scientific meaning will be reduced. An example on English was give in part 2.2 in the uploaded file. 5. Due to only three months were studied, it is far-fetching to discuss decreasing or increasing trend of concentrations. 6. Therefore, I think this article is not well prepared. More importantly, the scientific meaning is not reach the level of BG and I have to reject it.

Please also note the supplement to this comment:
https://www.biogeosciences-discuss.net/bg-2017-488/bg-2017-488-RC1-supplement.pdf

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