

## ***Interactive comment on “Measurements from mobile surface vehicles during LAPSE-RATE” by Gijs de Boer et al.***

**Anonymous Referee #2**

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The title of the manuscript is very attractive and this work is also very meaningful. But after reading the entire article, I was still a little disappointed. For articles published in ESSD, the production of data sets and their quality evaluation are the most important. However, the depth of the current version of the article is not enough. The full text looks like a report, with too many lists and simple descriptions, not a research paper. The work is well done, but the organization and presentation of the article is not enough.

Major comments: 1. The observation period (14 and 20 July 2018) of the data is too short. It is difficult to say that this data can have too much contribution to scientific researchers around the world. But the research methods (mobile surface vehicles) are very meaningful. 2. The observation items of the data are too conventional, basically meteorological data (temperature, wind speed, temperature, etc.), without special data.

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The article's comparison of these data is also relatively superficial. 3. If there is an introduction about the route setting, the structure of the entire equipment, and the cost, it may provide a more valuable reference for related scientists. 4. Data processing and quality control should not be considered as innovations of this article, but the article uses a larger amount of space. What do you want to express? 5. The biggest problem with mobile observation maybe its representation of time and space. Has the author elaborated this in the manuscript? How the author chooses the route and the sampling time? 6. The introduction of observation items and instruments (Table1-3) can be integrated into a table so that everyone can understand the system more directly.

In summary, I don't think the current version is suitable for publication on ESSD.

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