

Earth Syst. Sci. Data Discuss., referee comment RC2  
<https://doi.org/10.5194/essd-2020-392-RC2>, 2021  
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## Comment on **essd-2020-392**

Anonymous Referee #2

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Referee comment on "The Large eddy Observatory, Voitsumra Experiment 2019 (LOVE19) with high-resolution, spatially distributed observations of air temperature, wind speed, and wind direction from fiber-optic distributed sensing, towers, and ground-based remote sensing" by Karl Lapo et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2020-392-RC2>, 2021

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The manuscript describes a micrometeorological dataset consisting of observations from both traditional instrumentation and distributed fiber optic measurements of air temperature and wind speed. The authors describe the motivation behind the measurements, details on the instrumentation used, and present two examples of submeso-scale structures observed during the experiment.

The measurements are unique in the scales (hundreds of meters) and resolution (sub-meter) they cover, and will be very useful for micrometeorological research into the weak wind stable boundary layer.

While there are detailed explanations for most of the setup, some gaps are still present, mostly related to the DTS setup and calibration of the DTS data. Thus, I suggest that the authors consider the comments in the supplemental pdf and improve the manuscript.

Please also note the supplement to this comment:

<https://essd.copernicus.org/preprints/essd-2020-392/essd-2020-392-RC2-supplement.pdf>