



EGUsphere, referee comment RC1
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Comment on egusphere-2022-217

Anonymous Referee #1

Referee comment on "Drone-towed controlled-source electromagnetic (CSEM) system for near-surface geophysical prospecting: on instrument noise, temperature drift, transmission frequency, and survey set-up" by Tobias Bjerg Vilhelmsen and Arne Døssing, EGU Sphere, <https://doi.org/10.5194/egusphere-2022-217-RC1>, 2022

The present paper introduces the use of a drone-towed CSEM system. The system was used under several configurations in order to minimize noise and increase its accuracy. Authors identified a number of criticalities in the use of such systems, but there are clearly potential in its use.

Nevertheless, I think that the manuscript requires significant effort in order to be published. In particular, I have identified the following major issues:

- The manuscript is too technical from my point of view. The advances obtained with this research are not clearly emphasized. An effort in this direction would be very much appreciated.
- It would be good to use the analysis carried out in the present study to build a workflow with clear guidelines about the best strategies to be used in order to increase the quality of the system.
- Discussion of the manuscript should be extended including some more details about the advantages/disadvantages, and potential uses of the drone-towed CSEM system.