

Dear authors,

Thank you very much for the revision of the manuscript. The content of this paper is very valuable for the community, which was pointed out by the two referees too. For this reason, we should try to bring the publication up to the necessary standard.

General:

The current version still requires further improvements.

A further revision of the English language is crucial.

(see e.g. suggestion: line 17, Conclusion, line 385)

All abbreviations that you need must be written out and/or explained.

It is also necessary to check all punctuations, various commas are missing.

The paper should better highlight the functionalities and advantages of SMEARcore and explain them using the examples. Often we only find a description of the example, needs to be improved.

(A good examples are the descriptions of Figure 6 and 7; the description of Figures 3, 4 and 5 needs to be improved to describe the advantage of SMEAR's functionality).

You will find additional comments below. From my point of view, it is also crucial that the SMEARcore can also bring additional benefits in combination with a central network. This should be stated somewhere.

Abstract:

Revision of the Abstract (English and content) is required, examples see below.

Content: e.g. SMAER can also be an asset in parallel to a central solution, see my comment in the Conclusions).

English: the following is no understandable for experts not experienced in this filed.

line 17:

SMEARcore allows new SMEAR stations (Station for Measuring Earth Surface – Atmosphere Relations) to be built consistently with existing ones and to utilize pre-existing experience in data curation.

Suggestion: SMEARcore enables new SMEAR (Station for Measuring Earth Surface - Atmosphere Relations) stations to be integrated in a way that is consistent with existing stations and transfers existing data curation experience to the new station.

Introduction:

Line 74-75: English revision

Line 94-101: English revision

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Line 160, capture figure 1

Include explanation of the black dot with circle, on the right of the figure in figure capture.

Line 163-171: English revision

Line 180: Figure description has to include all abbreviations used in the figure

Conclusions, line 382:

This makes it useful for measurements that are not controlled by centralized solutions

Add: or it can be used as a backup of the data owner in parallel with data transfer to centralized networks.

Conclusions, line 385.

Your current text:

We show in two case studies how continuous visualizations of the data and metadata, such as instrument diagnostics and datafile availability, can help quickly spot interesting phenomena and abnormal situations in the measurements.

Suggestion:

We demonstrated with two case studies how continuous visualizations of data and metadata, such as device diagnostics and data file availability, can help to quickly identify interesting phenomena and abnormal situations in measurements.

Thanks in advance for taking this in account, kind regards Brigitte