



EGUsphere, chief editor comment CEC4
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Reply on CC1

Juan Antonio Añel

Chief editor comment on "Improving trajectory calculations by FLEXPART 10.4+ using single image superresolution" by Rüdiger Brecht et al., EGU sphere,
<https://doi.org/10.5194/egusphere-2022-441-CEC4>, 2022

Dear Andreas, dear authors,

First, apologies for taking so long to reply. I admit that it is hard that a change in reanalysis is not recorded and that ECMWF does well on this. Yet, it is true that in the past, there have been problems with others. Beyond that, the reproducibility and replicability of any learning technique are compromised without the exact input and output data; therefore, I am not making a point about open access here but about complying with the scientific method, and what makes something "science".

Regarding the size, from the editorial point of view, it is hard to make an assessment about what is reasonable or not to ask (this happens all the time) as this information is usually omitted from the text. On the other hand, I would like to point out that nowadays, 400 GB is not such a big problem; it is a reasonable amount of data to share. For example, Zenodo has a limit of 50 GB per archive, so eight to ten Zenodo repositories could make the trick. We have published many papers that have solved the issue in this way.

Therefore, I would ask you to be more open about the total size of the files that you would need to store to assure the replicability of the work and to assess the possibility of publishing at least a minimum sample. Otherwise, if you have stored the data internally and it is a too big dataset to upload and share, I would ask you to issue a DOI for it and provide information about where you are keeping them. And add this information to the manuscript.

I know that this represents some work, but we would like to comply with the highest standards in open science and scientific reproducibility.

Best regards,

Juan A. Añel

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