

Atmos. Meas. Tech. Discuss., referee comment RC3
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Reply on AC2

Anonymous Referee #1

Referee comment on "Exploiting Aeolus level-2b winds to better characterize atmospheric motion vector bias and uncertainty" by Katherine E. Lukens et al., Atmos. Meas. Tech. Discuss., <https://doi.org/10.5194/amt-2021-277-RC3>, 2021

Dear author,

The references you have found are very fine.

Although they are already 20 years old, the conclusions they extracted are completely valid today.

It was more or less in the era that the "AMV time scales" were defined and understood.

About finding a "peer reviewed reference", general research related of AMVs in general is found in the publications of the "International Winds Workshops"

(http://cimss.ssec.wisc.edu/iwwg/iwwg_meetings.html), but beyond this, much

information from these Workshops is not published in peer-reviewed journals (due to costs or the time needed to publish a paper).

What I would do here:

- Proceedings from the International Winds Workshops are a perfectly valid reference, and the IWWG has the interest to keep them online throughout the time.

- Because the main reference you use (Velden, C., D. Stettner, and J. Daniels, 2000) is not available anymore online (only an abstract), I would

include the second reference from the 5th International Winds Workshop (Schmetz, J., K. Holmlund, H.P. Roesli, and V. Levizzani, 2000), whose title is atemporal and unrelated to any specific satellite. This can be valid now and in any coming future.

Regards.