

## ***Interactive comment on “An optical particle size spectrometer for aircraft-borne measurements in IAGOS-CARIBIC” by M. Hermann et al.***

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I found this paper in general easy to read and understand. All of my comments and questions are contained in an annotated copy of the manuscript attached as a supplement that I also have edited somewhat to improve clarity in various places.

I think that what might be missing in the abstract, introduction and summary is more highlighting of what makes this instrument and its application unique. This is not just another OPC in the fuselage of an aircraft. There are many of these on research aircraft that have already been described in the literature. The research team has done a very careful analysis of the commercial instrument that they adapted for this application and one of the unique features is the storing of the complete pulse shape

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for post processing. This offers the possibility of further filtering for artifacts as well as possibly increasing the sizing accuracy.

I have a number of questions and comments that should be adequately addressed before I am ready to pass this paper on for publications. None of them should be too difficult to answer.

Please also note the supplement to this comment:

<http://www.atmos-meas-tech-discuss.net/8/C4176/2015/amtd-8-C4176-2015-supplement.pdf>

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