Atmospheric
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Interactive comment on "Error estimation for localized signal properties: application to atmospheric mixing height retrievals" *by* G. Biavati et al.

Anonymous Referee #2

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The paper deals with the problem of estimating uncertainties for quantities derived by fulfillment of one or more conditions upon a given data set. Typical example is the determination of the Planetary Boundary Layer height by radiosonde data, where using the parcel method or the Bulk Richardson method it is necessary to find the point where a local property of the potential temperature or the Richardson number profiles. Apart from some issues described in the document attached, I think the paper describes interesting theory for the determination of uncertainties in localizing local properties inside a given data set and a given algorithm. For this reason, I encourage the publication after solving the points here specified.

C1569

Please also note the supplement to this comment:
http://www.atmos-meas-tech-discuss.net/8/C1569/2015/amtd-8-C1569-2015-supplement.pdf

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 5105, 2015.