Geoscientific
Model Development
Discussions

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Interactive comment on "Automated tracking of shallow cumulus clouds in large domain, long duration Large Eddy Simulations" *by* T. Heus and A. Seifert

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We thank the referee for his kind words, and for his suggestions on the paper. The following clarifications have been incorporated in the revised manuscript:

1. *p 2289: line 14: "due to collisions of otherwise separate objects of clouds" – unclear*
   Also based on a suggestion by referee 1, we have revised the entire paragraph and hope that it is more clear now.

2. *p. 2290: line 7: "a function of the cloud size of the single convective element" –*

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what is the cloud size?
We've modified the first paragraphs of the introduction to give a range of the cloud sizes we are interested in.

3. *p. 2294: line 20: "active but isolate pulse clouds" – define "pulse cloud"?*
   This is actually the paragraph where we define the difference between isolated pulse and a multi-pulse system. The sentence is rephrased for clarification.

4. *p. 2295: line3: "(number) of iterations"*
   Fixed.

5. *p. 2298: line 6 "and the also"*
   Rephrased.

6. *p. 2300: line 5: "that never have buoyant core"*
   Clarified.

7. *p. 2300: line18: "close to LCL"*
   We're not completely sure what was unclear here, but perhaps "only slightly above LCL" clarifies the sentence enought.

8. *p. 2303, line17: "allows us to more fine grained"*
   Clarified

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