

The reviewers have satisfactorily addressed my comments, and I have only a few minor technical corrections to suggest prior to publication. I reference line numbers in the “track changes” version of the manuscript.

Minor comments:

- It is good that you reference P3 as another type of scheme in L54-59, but I believe you mistakenly lump it together with MG08 which is in fact category and moment based. I would remove the citation for MG08. Also please clarify in the text that by “LIMA-like” (L57), I assume you mean category-based?
- Please add the units (where appropriate) for the parameters listed in Table 1. The list of symbols that has been added to the appendix is very helpful.
- Figures 2, 4, 5 and others are much improved over the original version.
 - The caption of figure 4 should read “Instantaneous rain precipitation (**shading**)” so as not to confuse the readers with the shading versus colored contours.
 - The caption of figure 5 has the wrong colors listed for snow, graupel, and hail compared with the legend in the figure.
 - The yellow lines in Figure 8 are challenging to see on a screen and do not show up when printed in black and white. I suggest choosing a darker color like magenta.
- In order to address the 2nd reviewer’s comment on distinguishing between LIMA and LIMA2, I would further suggest writing out “LIMA1” everywhere that the v1 model is the subject of discussion, rather than the more generic “LIMA”.

Technical corrections:

L47: “the concern to develop” → “concern about developing”

L75: “to include” → “of including”

L133: “Gamma distribution law” → “Gamma distribution” (law is redundant)

L151: “broadening of particle” → “broadening of the particle”

L151: “verified” → “met”

L485: “diagnostics of Ns is not...” → “diagnostics of Ns are not...”