

General comment

I believe this paper is a very interesting contribution to highlight the value of dual-pol observations for the evaluation of microphysics scheme in convective scale models.

The addition of information related to the forward operator and to the density options in the different schemes is very welcomed in this new version.

The new analysis where all ice species are gathered enables an easier comparison from one scheme to the other.

I suggest publishing the paper as it is (just correcting for remaining typo errors):

l 39:

to answer is: How much complexity => to answer is: how much complexity

l 41: knowledge: It is known => knowledge: It is known

l 131:

model grid spacing is at 400 m => is 400 m

l 148:

for each hydrometer type => for each hydrometeor type

line 153: vertical ice ==> you should keep the Dolan (2013) terminology “vertically aligned ice” at least in the text

line 451 :

Tt slightly smaller reflection => The slightly smaller reflection