>> It seems hard to aware that the color scheme in figure 5a is not bounded on purpose. It would be nice if there was a mention of this in the text or caption. The modified figure reflects the reviewer’s intention well.

Thank you for the suggestion. We will unify the colorbars for all 4 subplots in figure 5a.

>> I'm still wondering why the patterns that are removed from the CAAS local bound (fig 5b) are not removed when using the local-p bound (fig 5c).

CAAS with local bounds enforces a much tighter form of bound preservation than CAAS with local-p bounds, which is why the oscillatory patterns appear in 5c but not 5b.