R1

I liked the change in this version of the paper to include the discussion of cloud radiative effect in the new section 5. My only remaining comment is that this discussion is not well referenced in the conclusion section. There is a very brief discussion of the 30 September case discussed in section 5, but the cloud radiative effect findings are not discussed. Otherwise, I appreciated the changes in this version and have no further suggestions.

We thank the reviewer for the positive feedback. The text in conclusion section was integrated as follows:

“A profile of CRE was derived from the transition between atmospheric states observed with a sequence of balloon profile measurements obtained on 30 September 2021. A low-level cloud dissipated, and the vertical profiles of the radiative energy budget and the radiative cooling rates changed significantly and rapidly. The CRE from surface measurements matched the results obtained at the base of the balloon profile, however the CRE steadily increased with altitude up to cloud base height and peaked in the central part of the cloud. Simulations alternating the two thermodynamic profiles were combined with switching the cloud layer on and off, indicating that cloudiness is the main driver in controlling the structure of the TIR radiation profile.”