

This document serves as a description the supplementary material for the above paper. Tables 1-3 show summaries of domain averaged statistics of diagnostic radiative variables for each of the scenarios for each case study. Tables 4-6 are similar tables showing temperature at 2m above surface, planetary boundary layer height and precipitation.

Figures 1 and 2 are equivalent figures to Figure 4 in the main paper, for the other two case study days (18 and 23 September respectively). These were not included in the main paper due to their similarity to the first case study day (14 September), but have been included here for completeness. Finally, Figure 3 in this supplement is complimentary to Figure 5 in the main paper, showing down-welling SW radiation at the surface, including the effects of clouds for each case study day.