



Supplement of

Aerosol-deep convection interaction based on joint cell-thermal tracking in Large Eddy Simulations during the TRACER campaign

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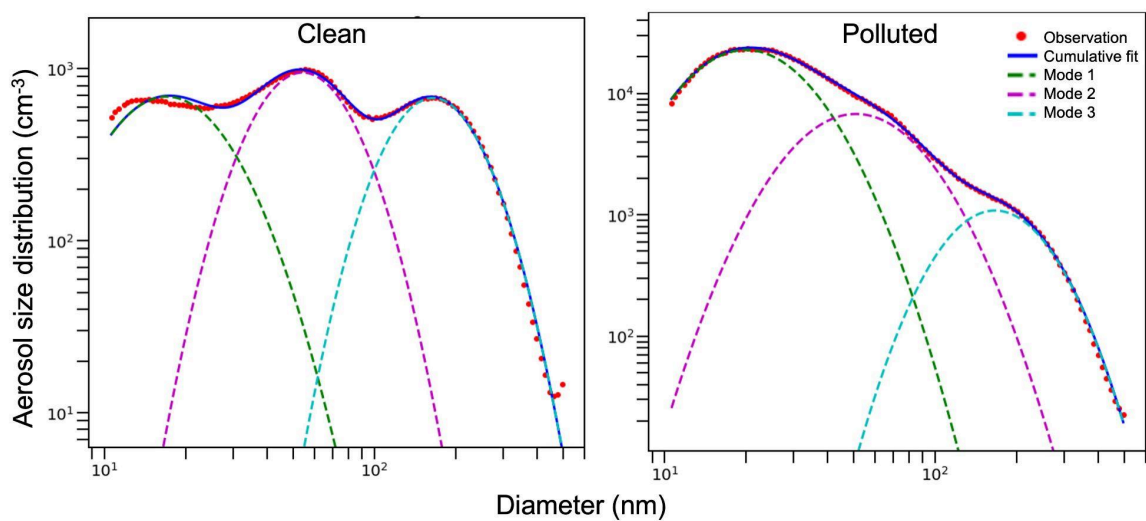


Fig. S1: Multimodal aerosol size distributions at the TRACER main site for clean (<10th percentile) and polluted (>90th percentile) conditions during 17 June to 07 August 2022. Red markers represent observations from scanning mobility particle sizer (SMPS) measurements, the blue line shows the cumulative lognormal fit, and dashed lines indicate the three fitted modes.

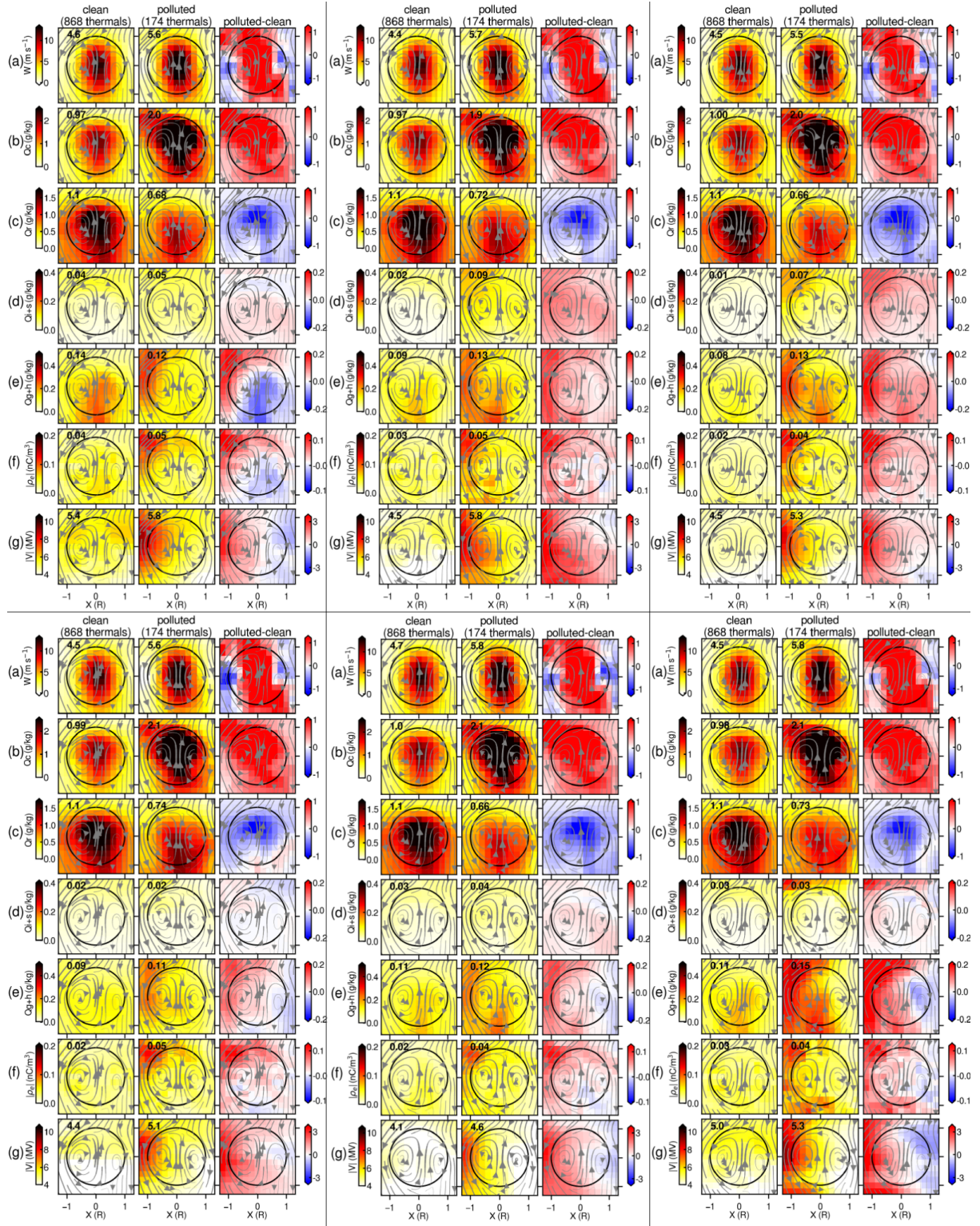


Figure S2: Composites of different variables for thermals in the clean and polluted cases (as in Fig. 5 in the main manuscript), in which each panel uses a different random sample of thermals from the 08/07 case, in order to have an equal size sample from both cases (08/04 and 08/07).