

Interactive comment on “Observations of convective clouds generated by solar heating of dark smoke plumes” by L. Klüser et al.

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The study presented here is of observational nature, and thus we did not intend to model the observed cloud formation. Nevertheless we hope that our findings may motivate experts in small scale cloud resolved modelling to simulate this phenomenon, as additionally included in the conclusions.

‘Fig 3’: Presenting images of one variable in greyscale is common and appropriate (especially for images showing reflectance of surface, aerosols and clouds) while RGB colour images are mostly used to present more than one variable in one image (at least in the case of satellite imagery). To overcome unclarity regarding the reference field, we have added images of the reference fields for all four image acquisition times.

‘Fig 9’: This is the standard scale used in this analysis as used also in other papers. It

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demonstrates the extremely small effective radius and the vertical extent of the clouds. Thus we think, we should not vary the axis scaling despite the small value range of shown T-r pairs.

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