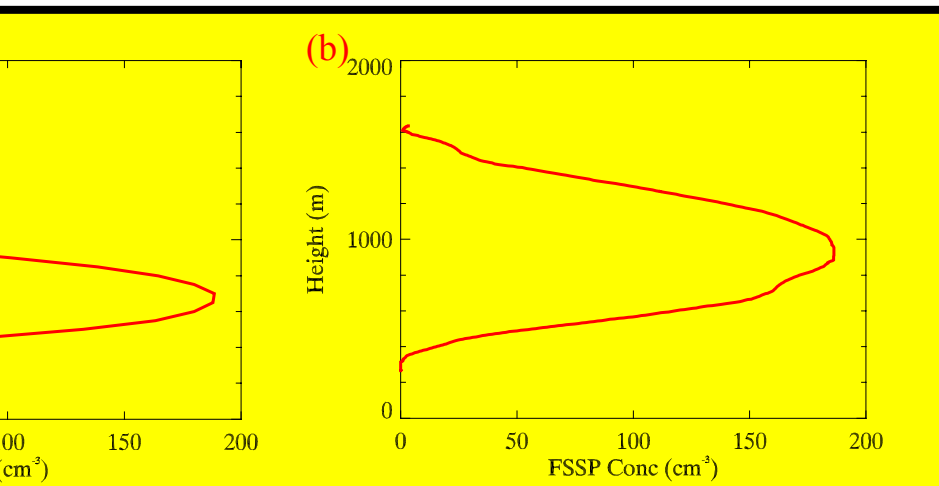


4 h for the 3 March 2000

t. (a) θ_v (blue) and q_t (red), (b) er, (c) vertical velocity variance, (d) zzzle rate.



(b) LES cloud droplet number concentration at 4 h. (b) FSSP number concentration from a descent leg late in the

The simulation captures reasonably well the bimodal nature of the distribution (Figure 10a) however, the simulations underestimate the concentration. Tuning the initial aerosol profile should be able to match the observed microphysical measurements. The profiles produced by the LES present, at least to the extent shown, show surprising similarity in shape, with the profiles (cf. 10a and 10b). The quantitative differences in droplet and FSSP concentration likely arises from droplets less than 25 μm .

