

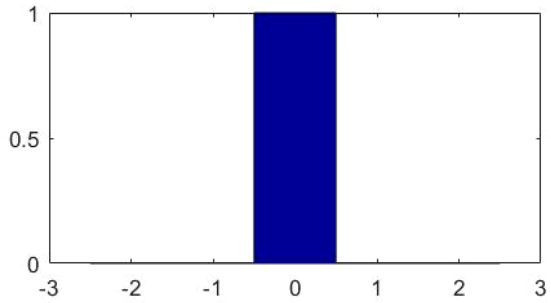
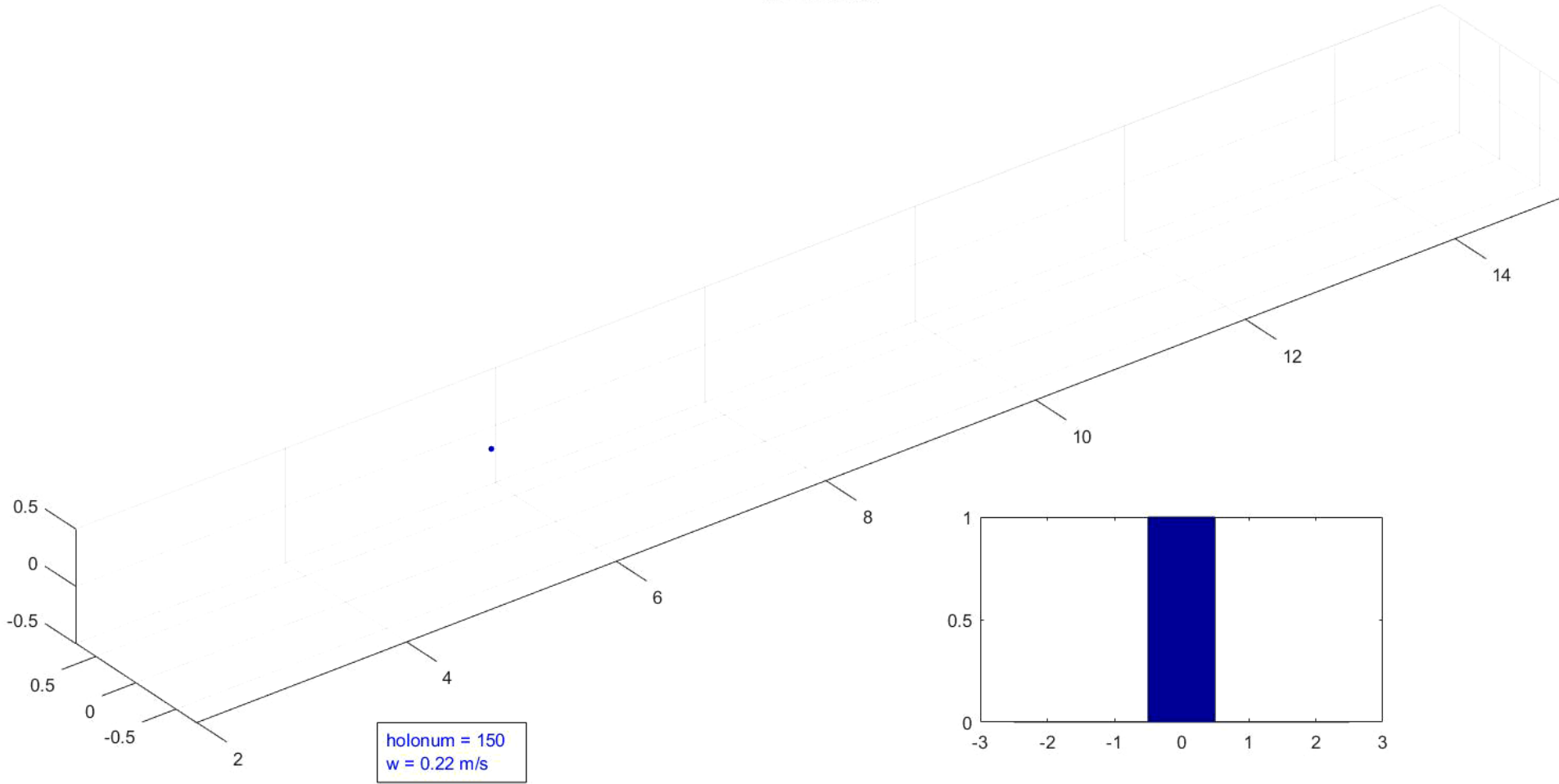


# HOLODEC at CSET

Susanne Glienke

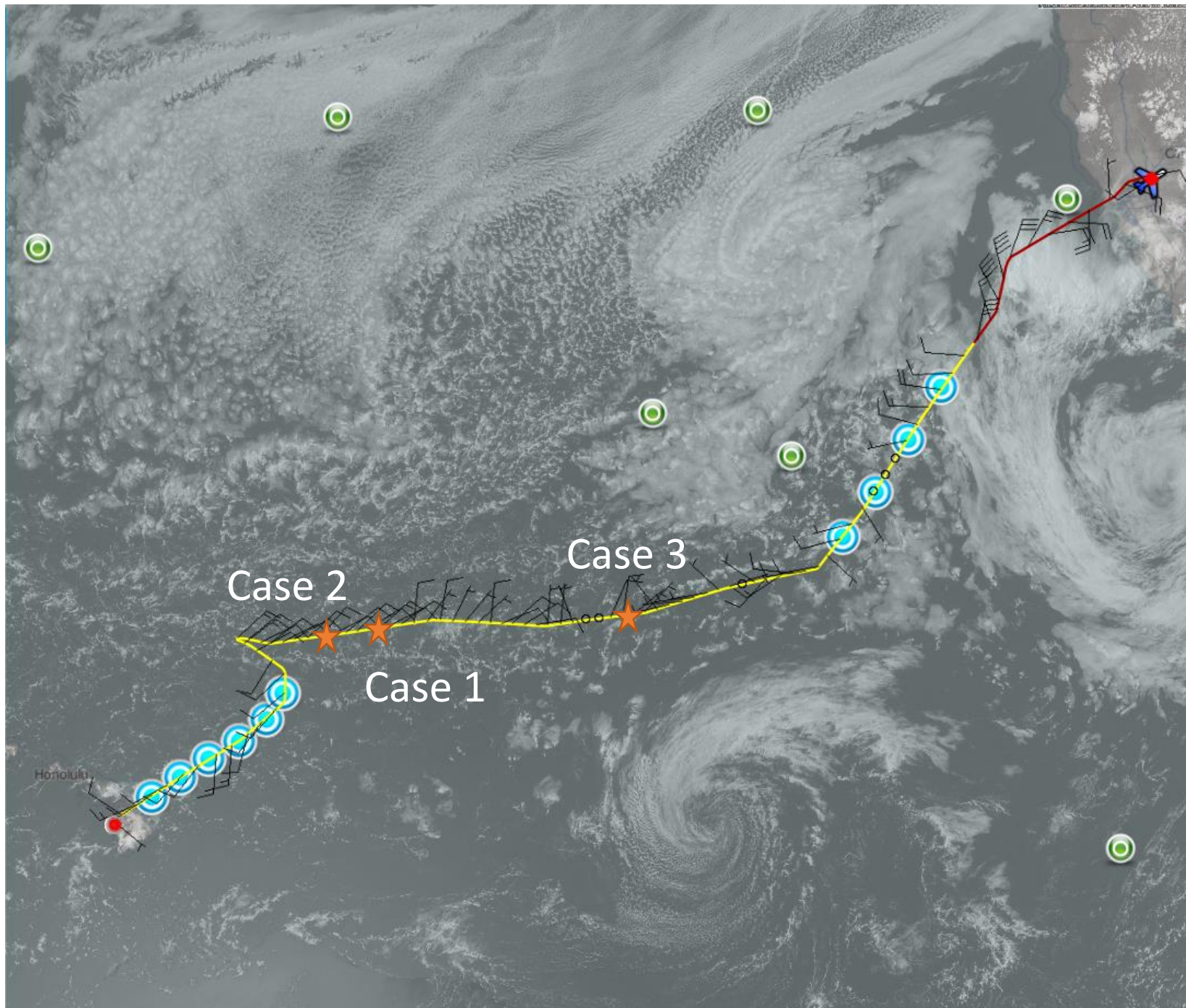


19:14:13.258

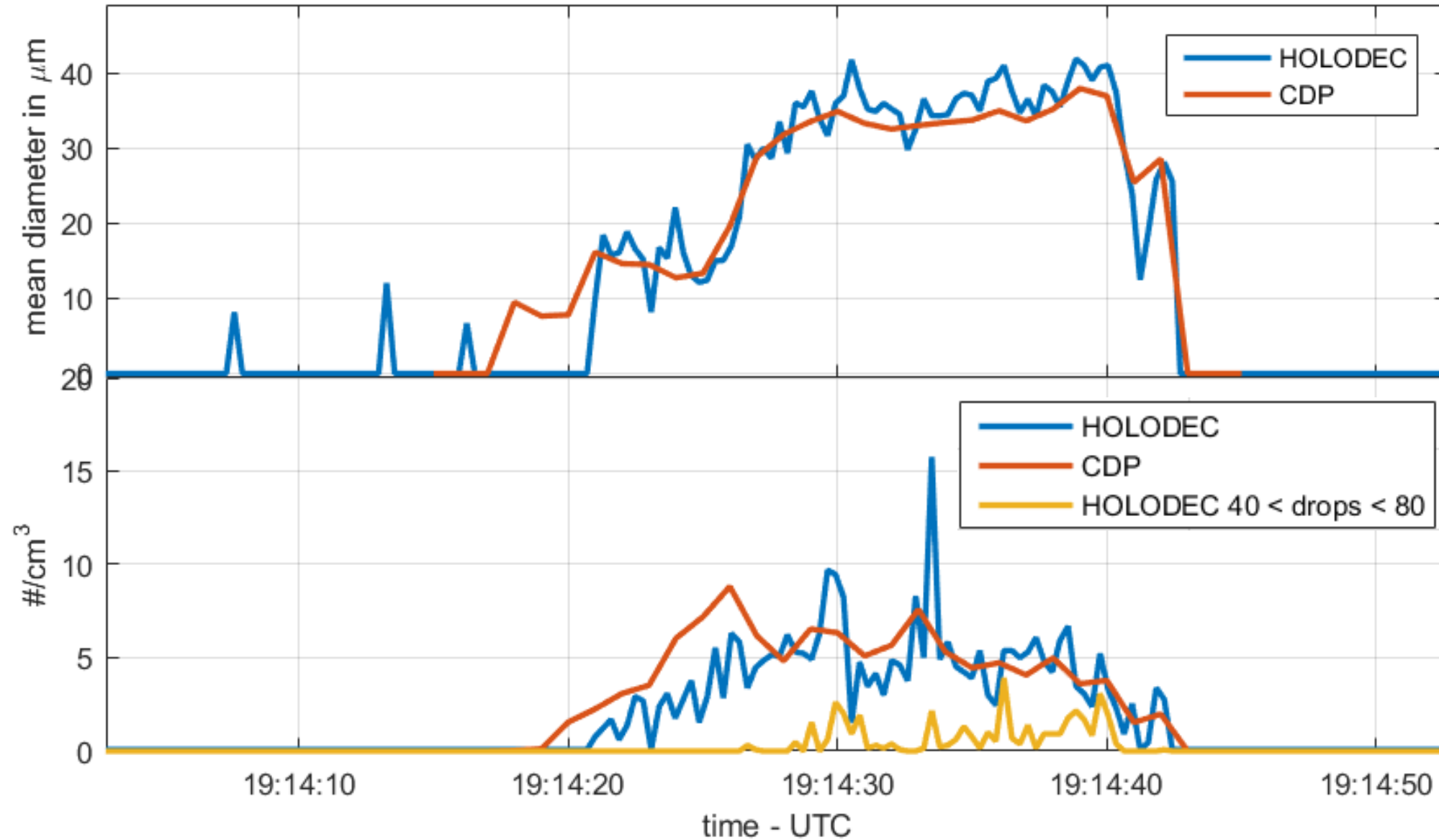


RF07:  
HI -> CA

★ The 3 cases

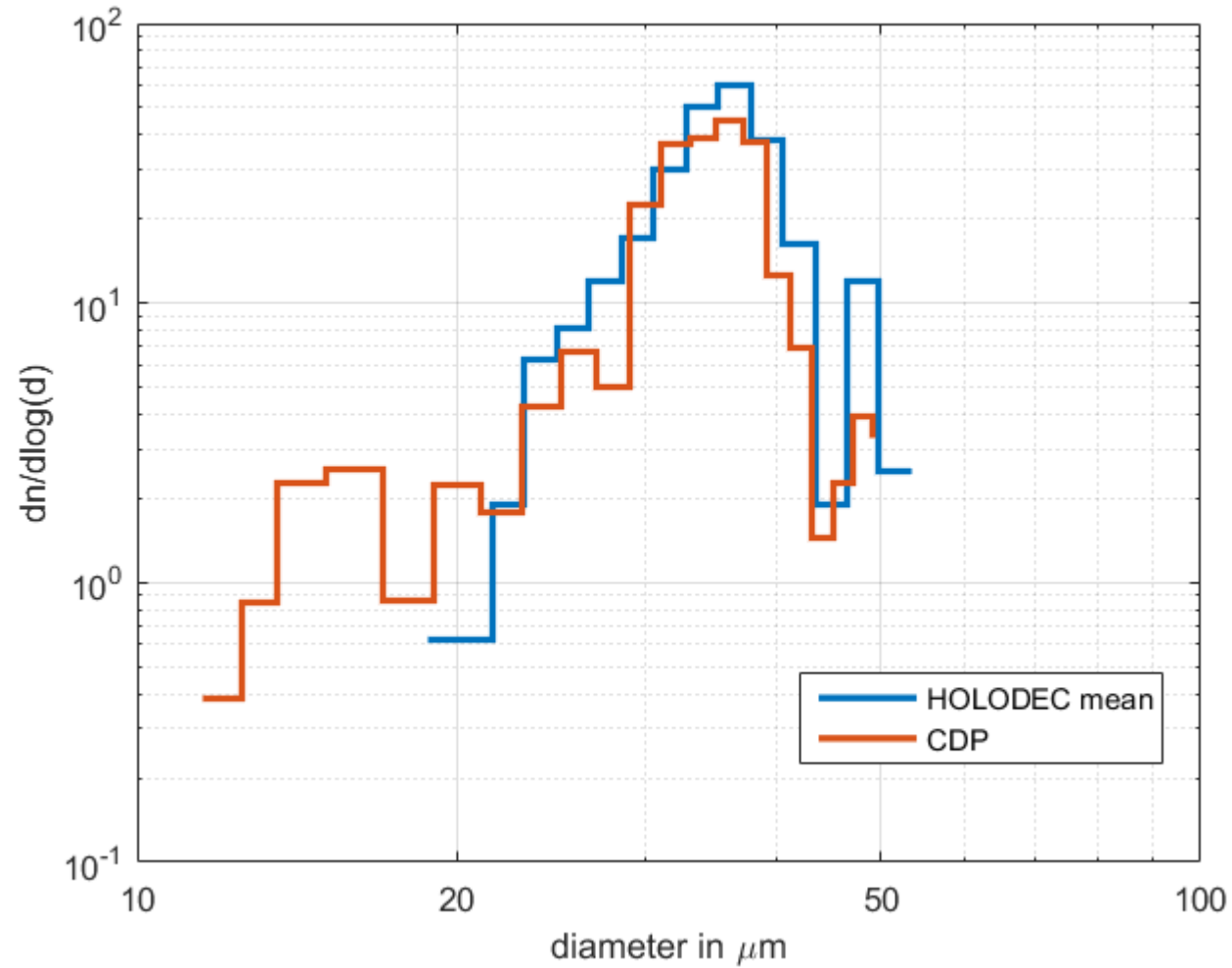
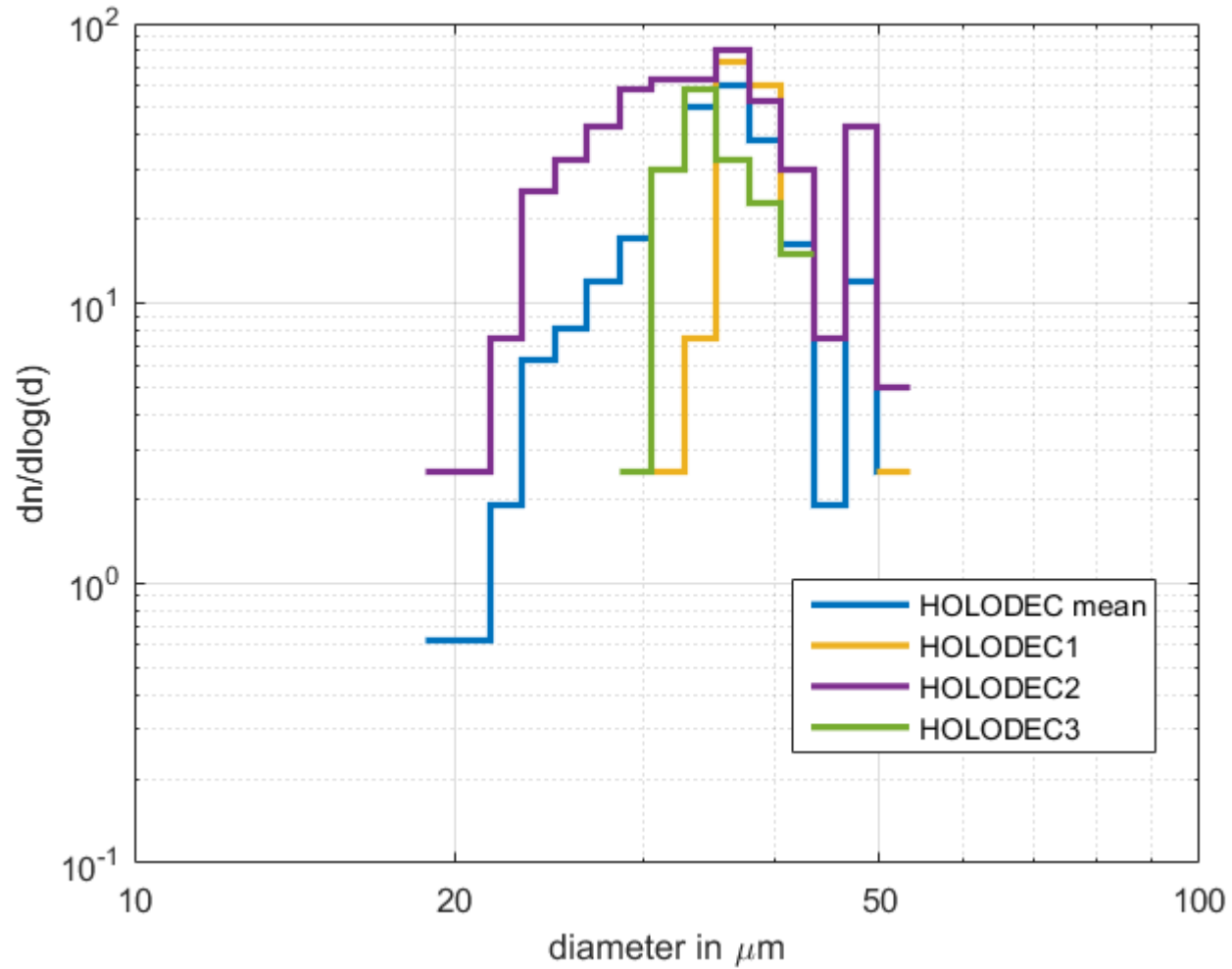


# Case 1: UCL (ascending)

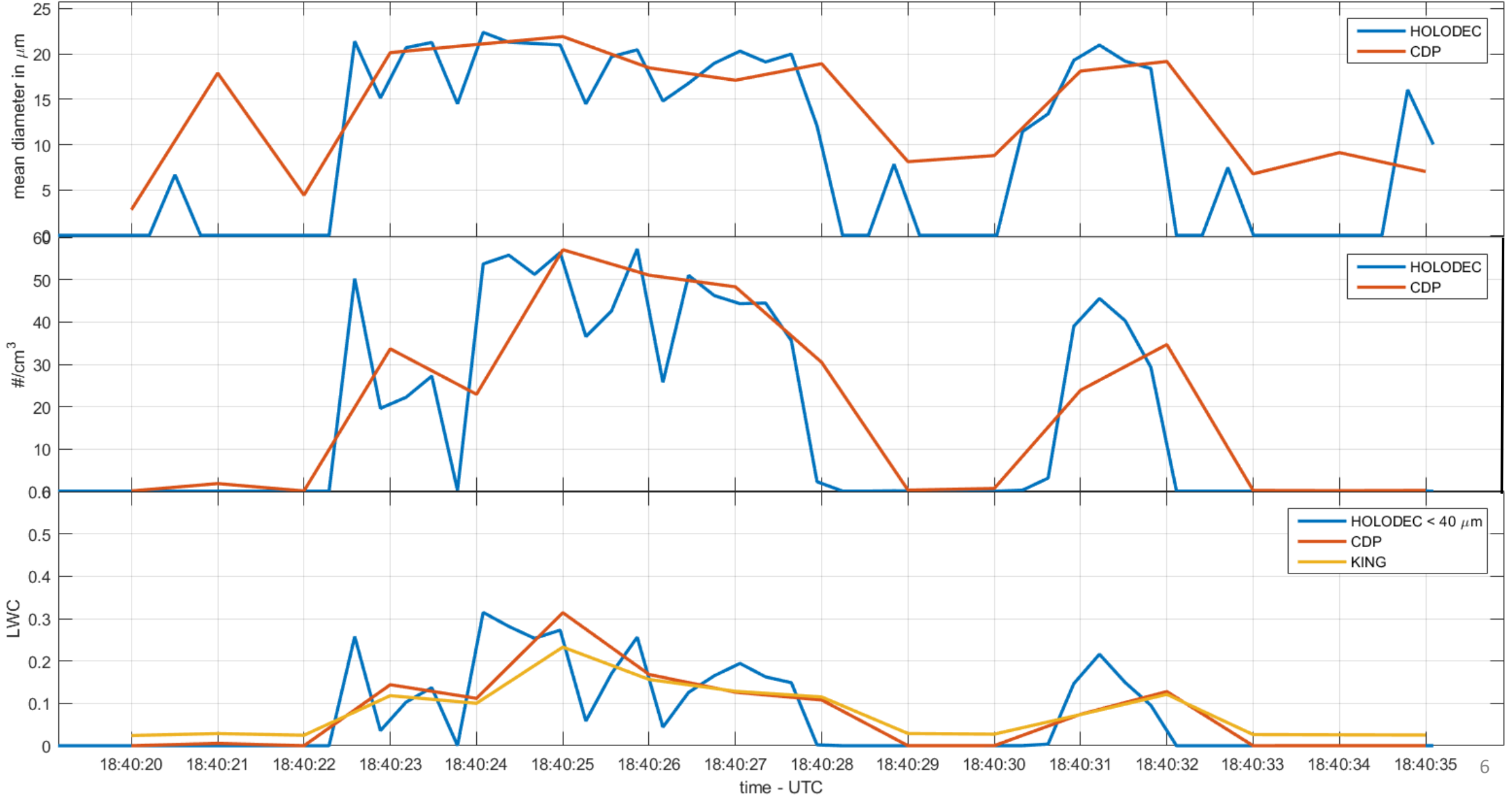


# Case 1: UCL (ascending)

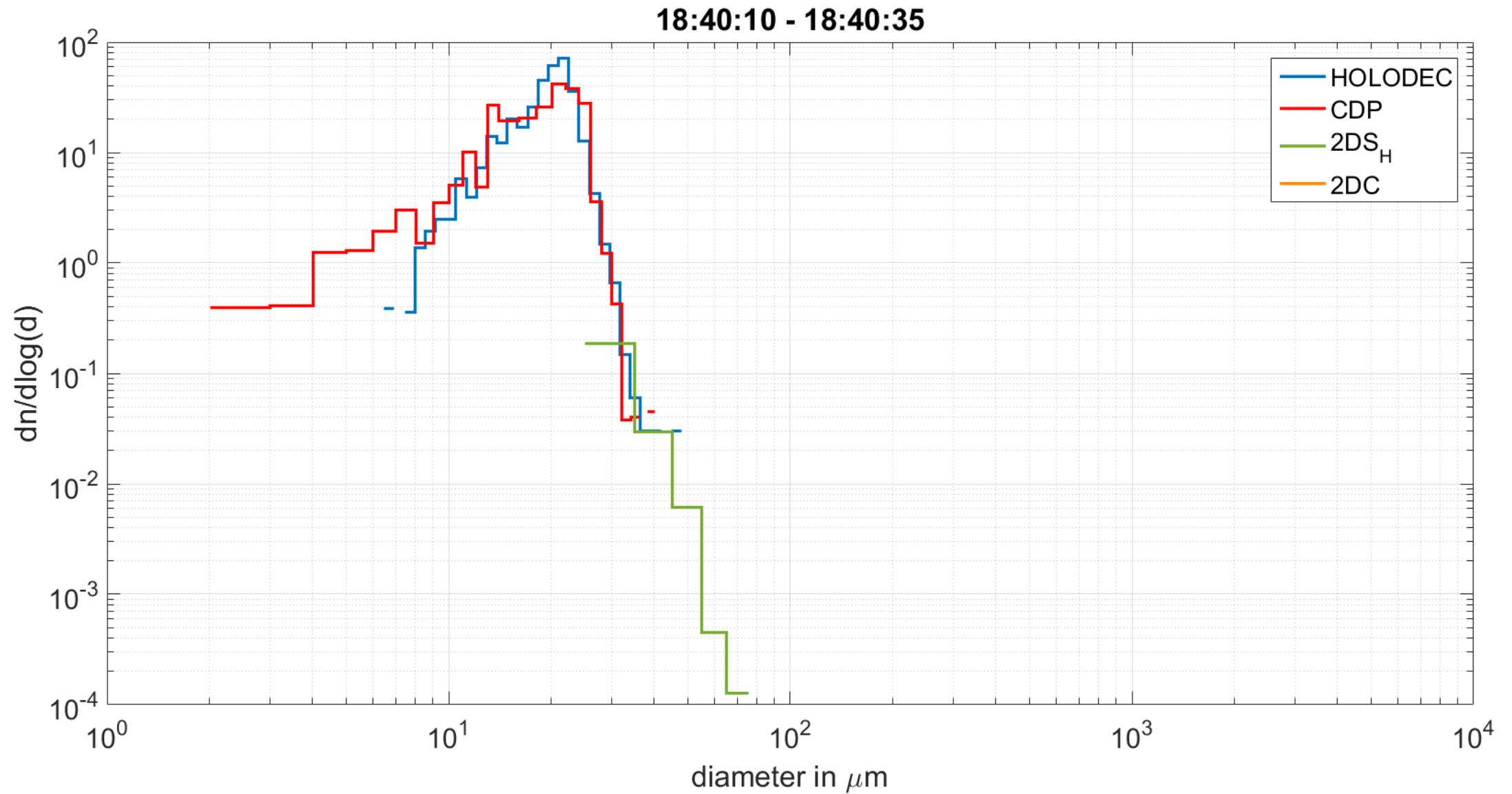
one second – 19:14:33



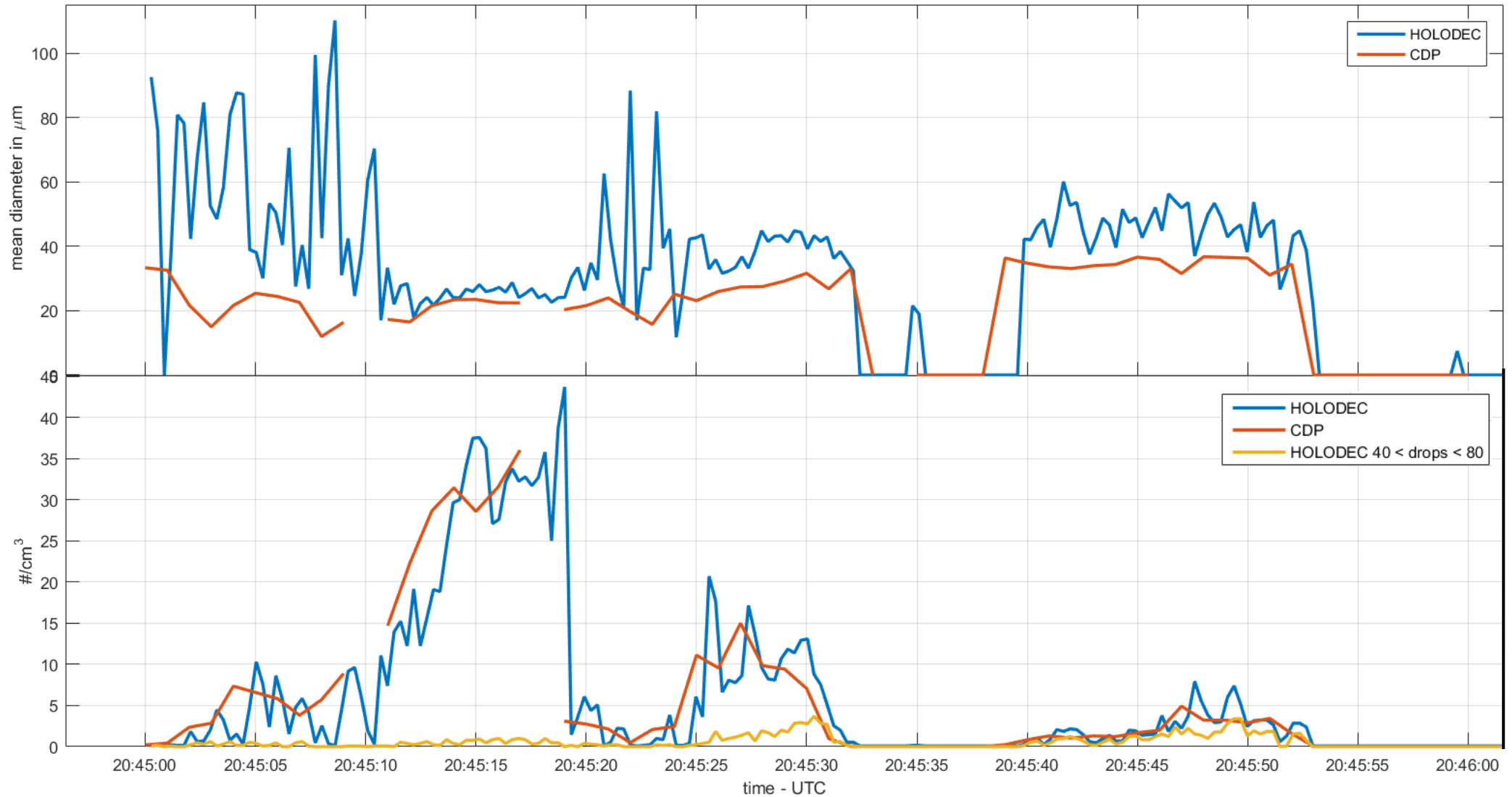
# Case 2: no precipitation (descending)



# Case 2: no precipitation (descending)



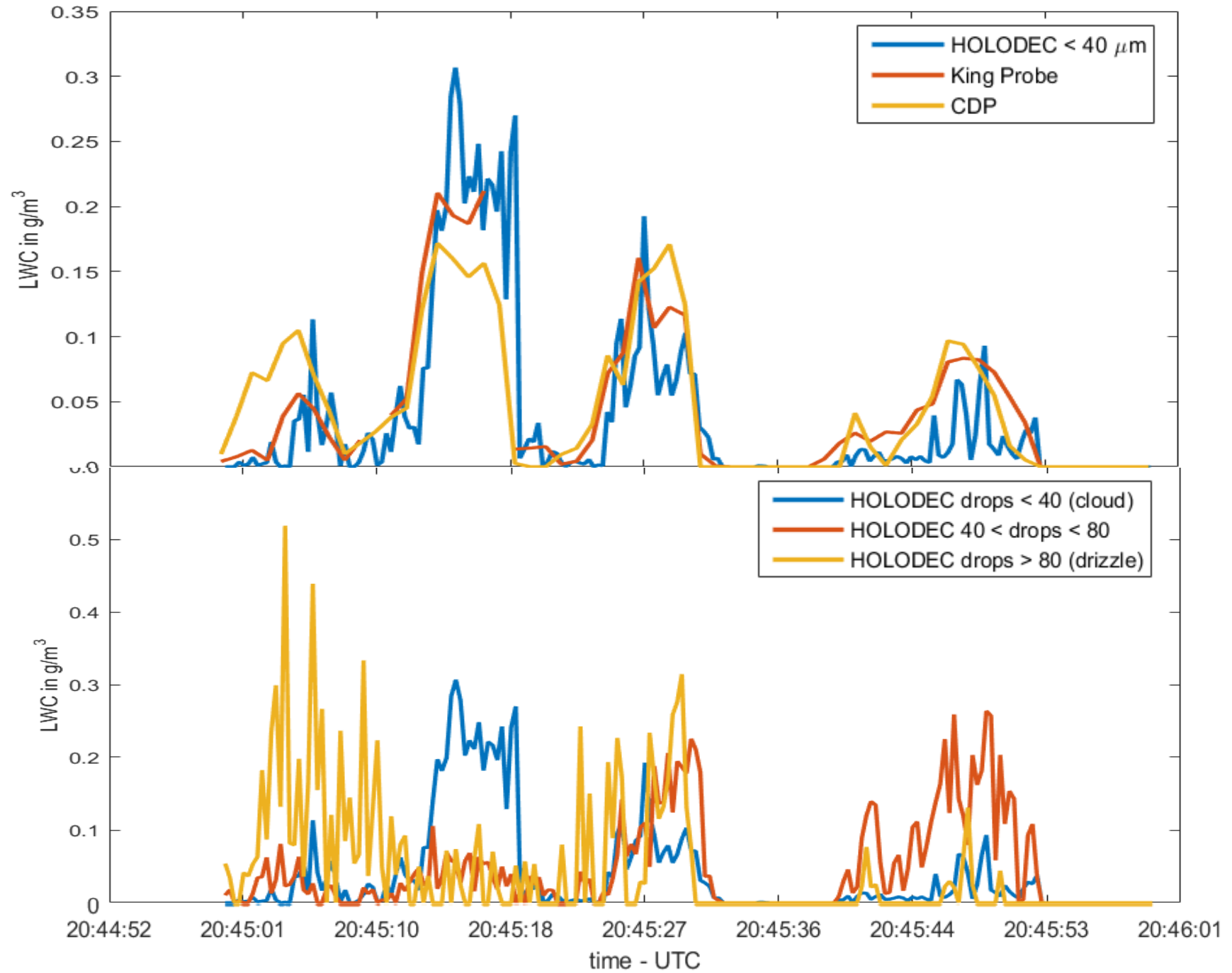
# Case 3: drizzling cloud (ascending)



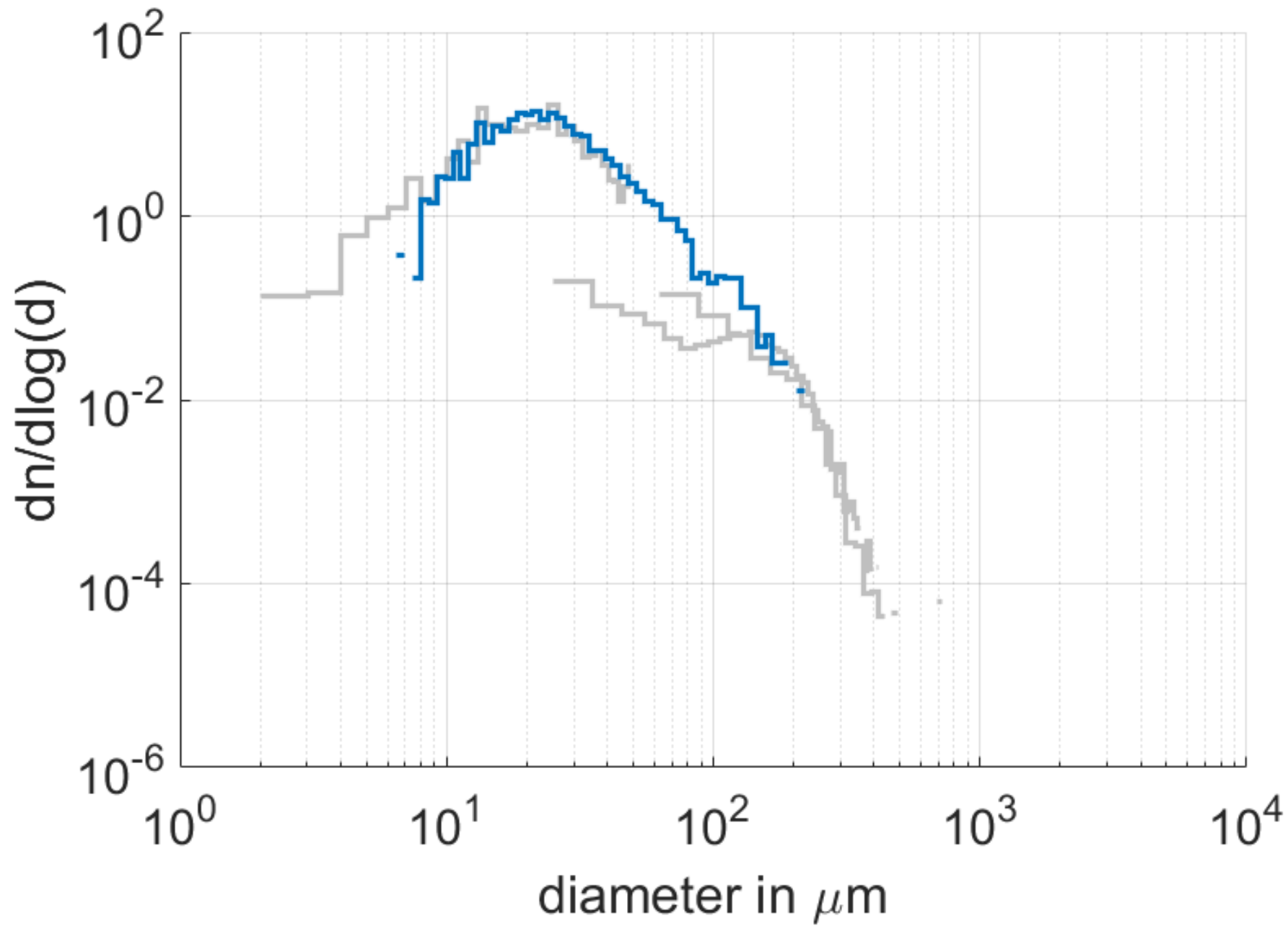


# Case 3: drizzling cloud (ascending)

## LWC

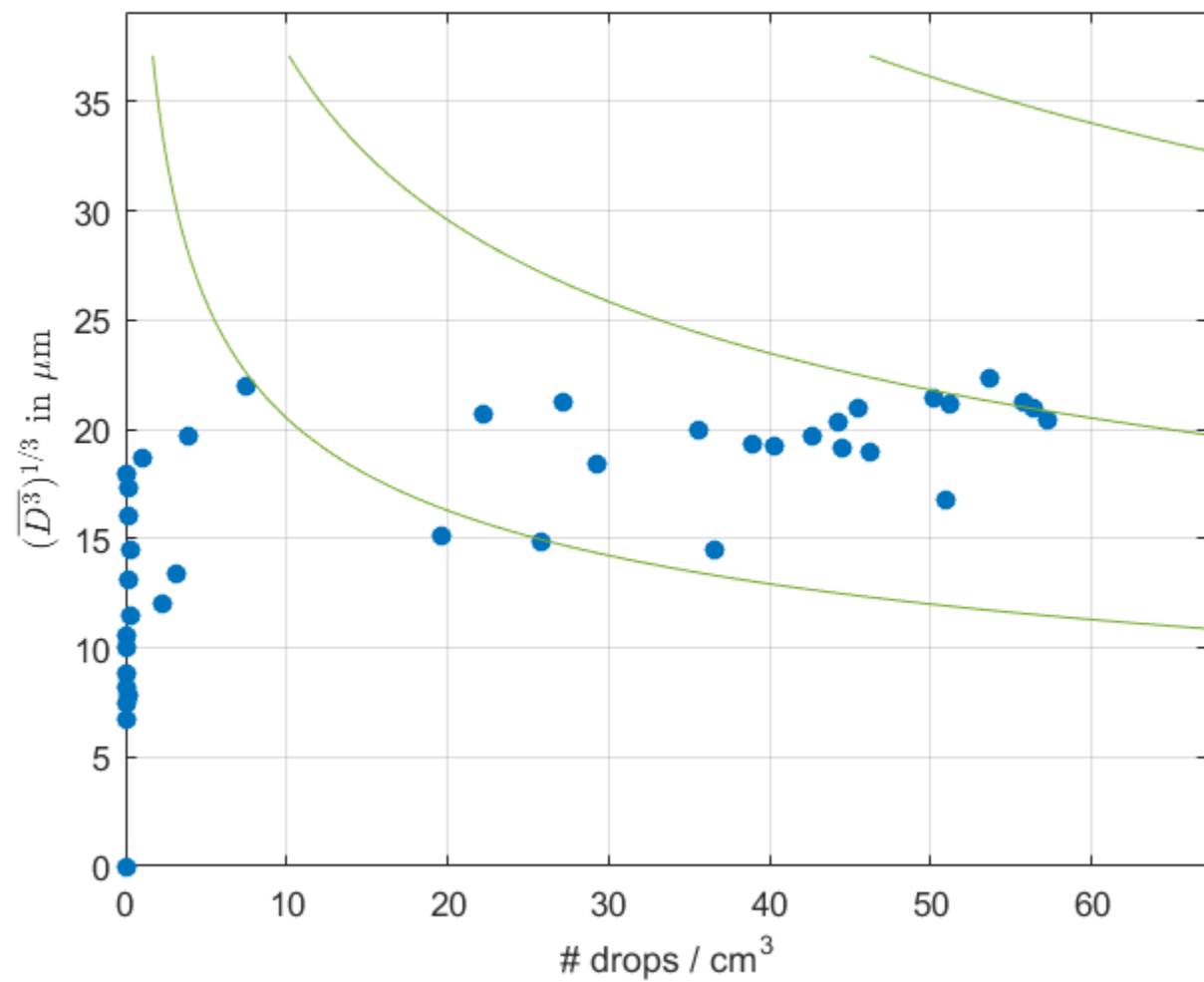


# Case 3: drizzling cloud (ascending)



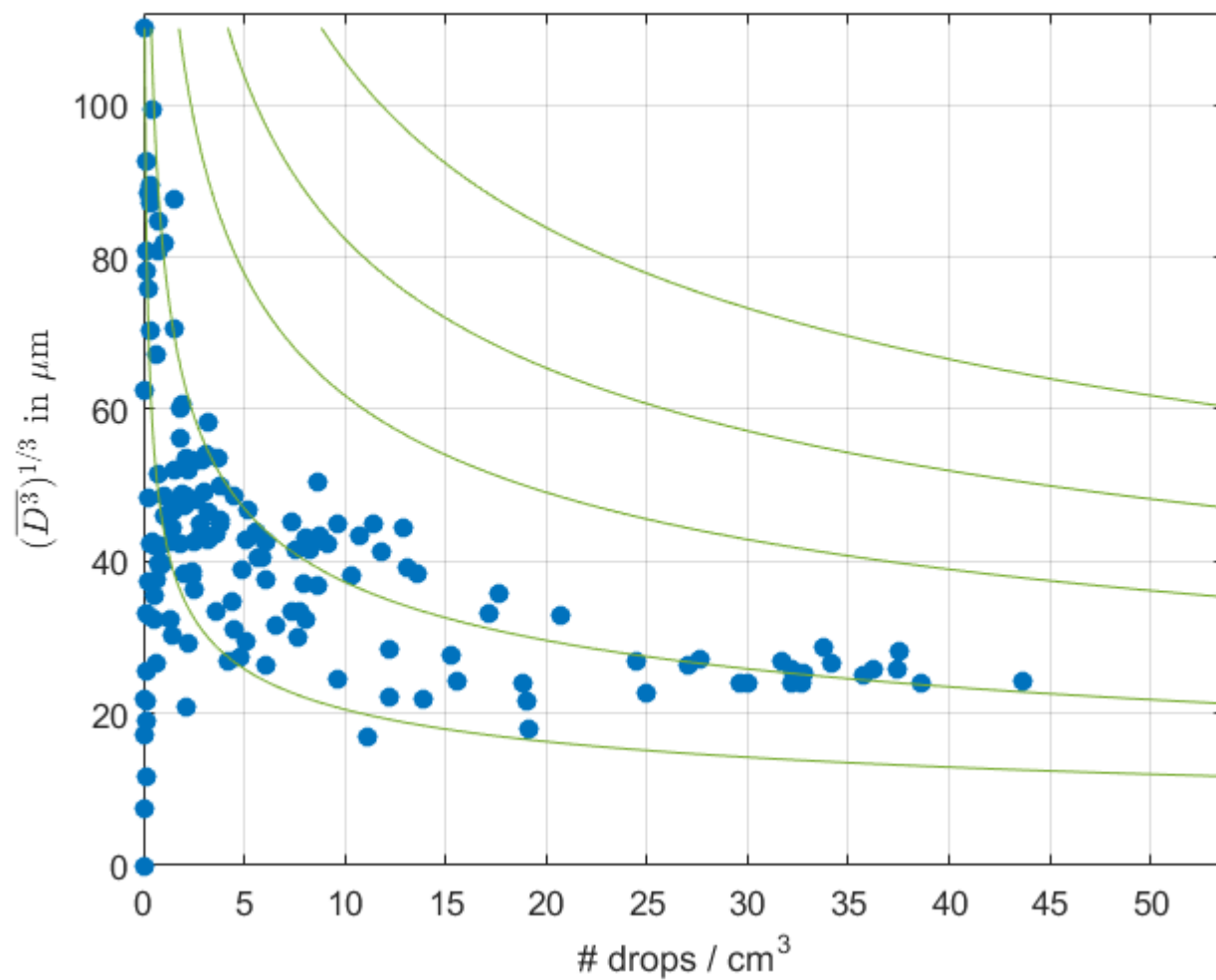
## Case 2

mixing



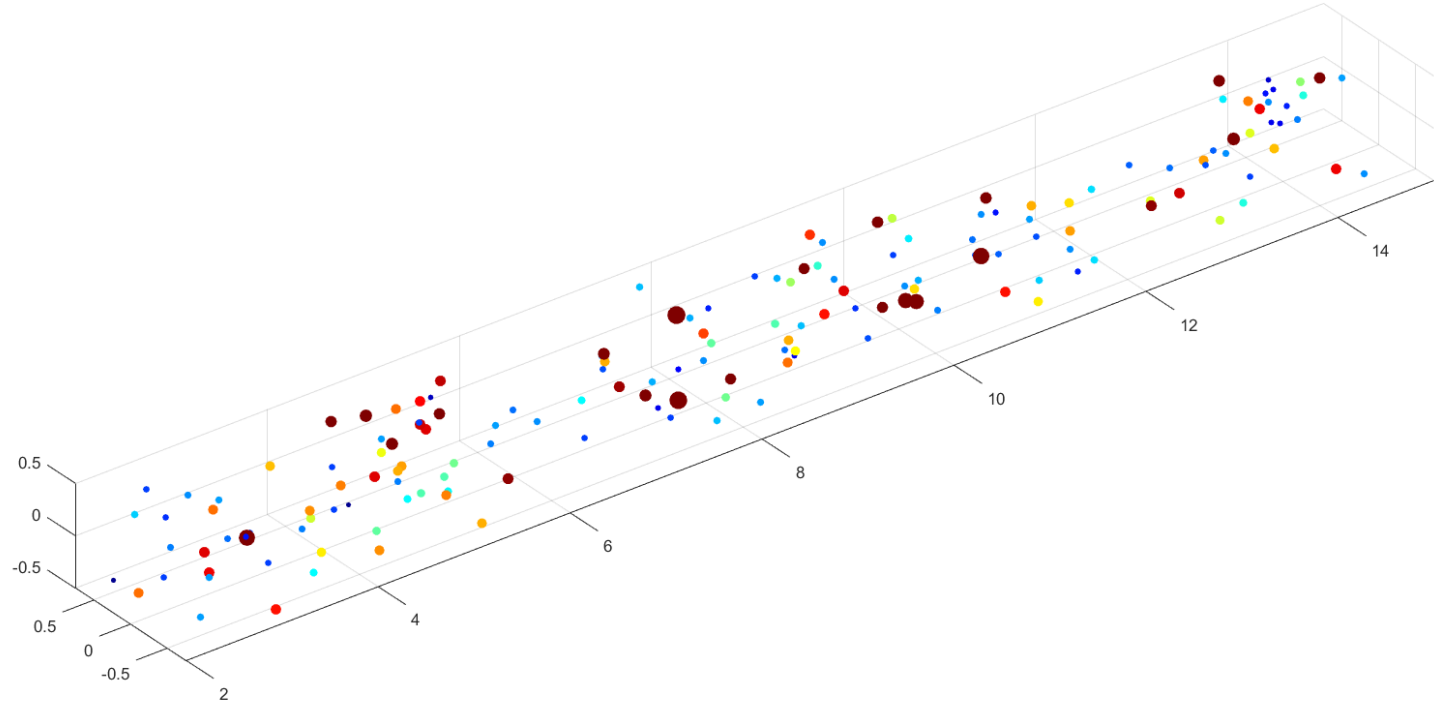
## Case 3

coalescence



# Outlook

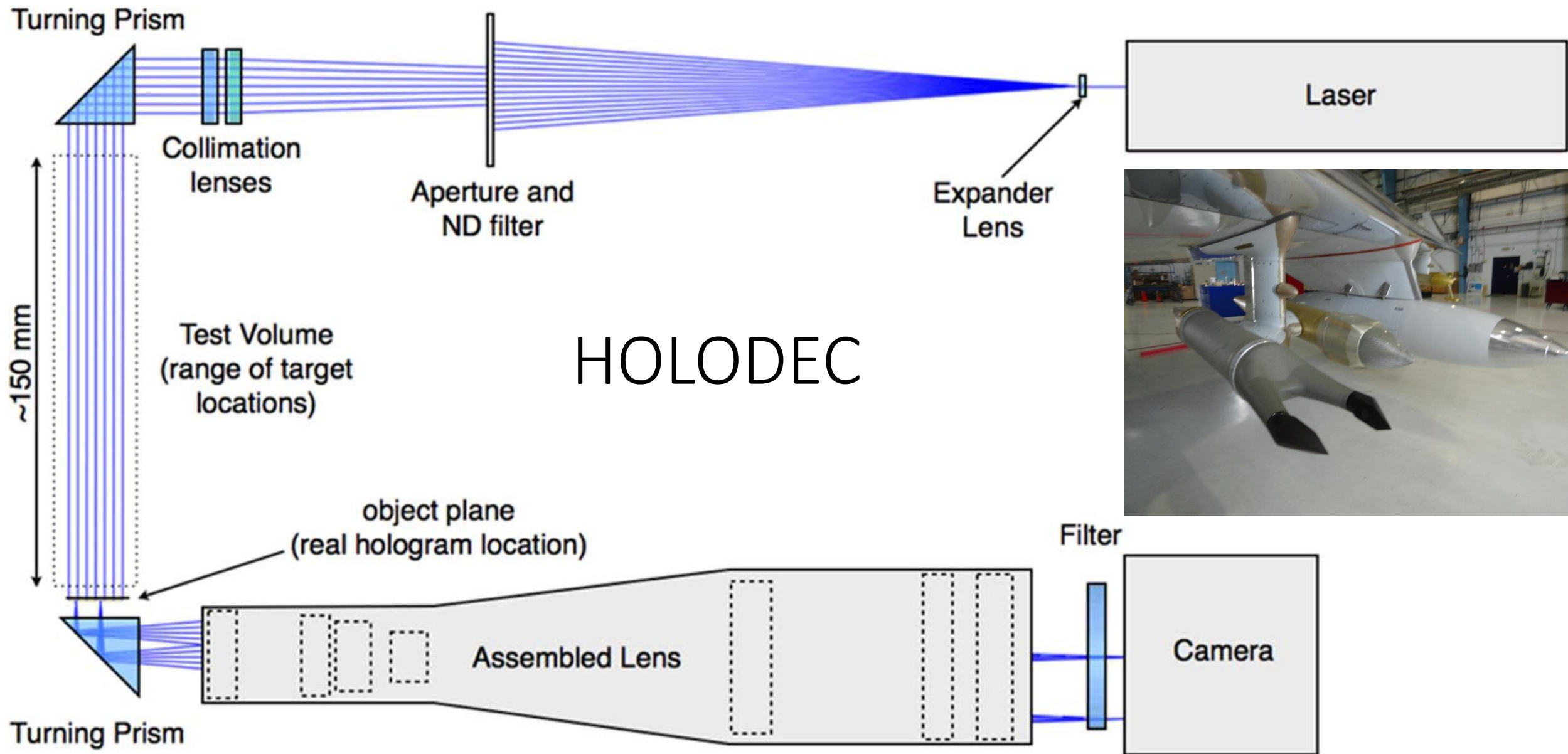
- Ideas
  - Microphysical variability
  - Story of drizzle formation
  - Turbulence
    - mixing
    - clustering



- Further ideas to support CSET science and collaborations?

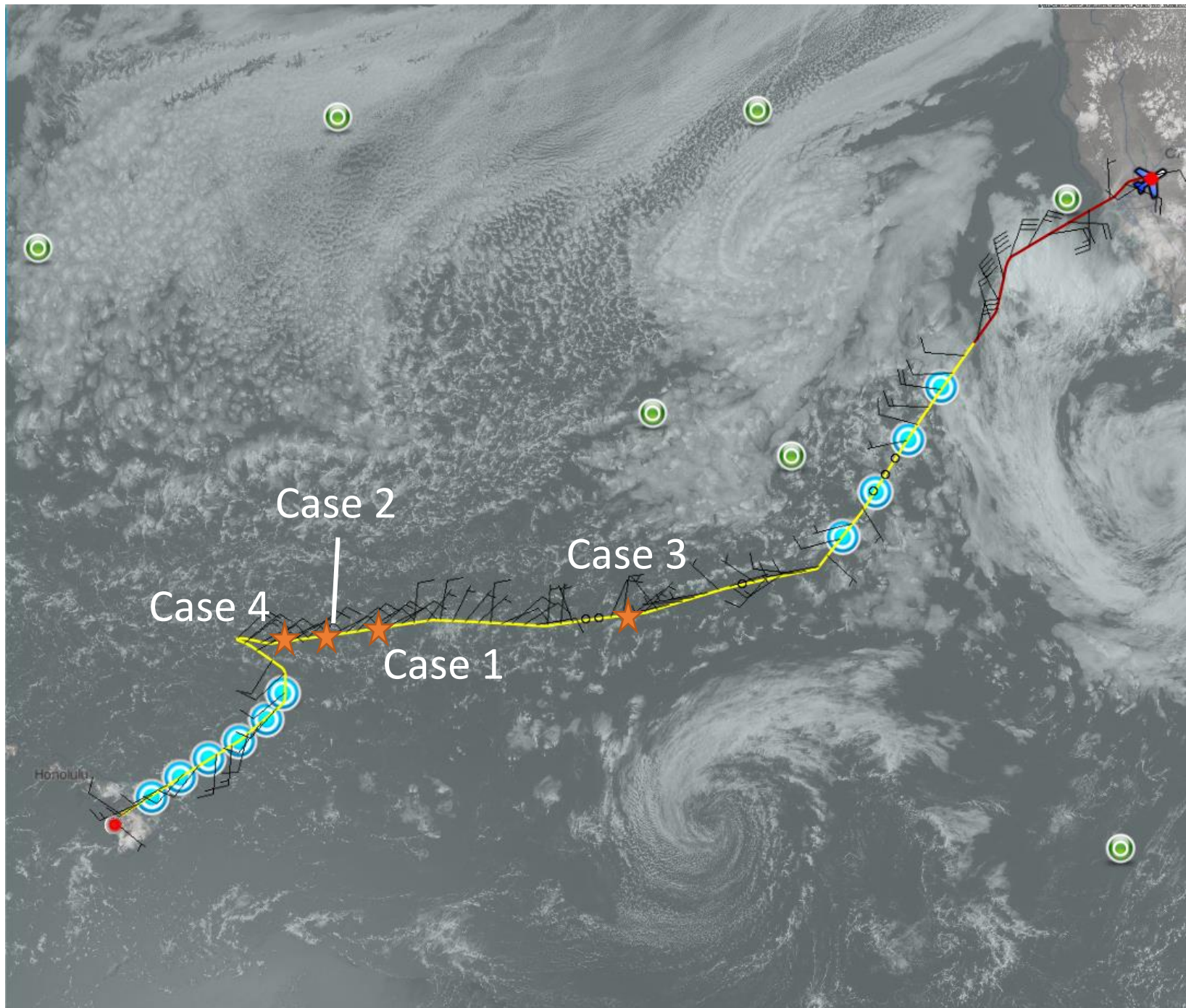


# Additional Info



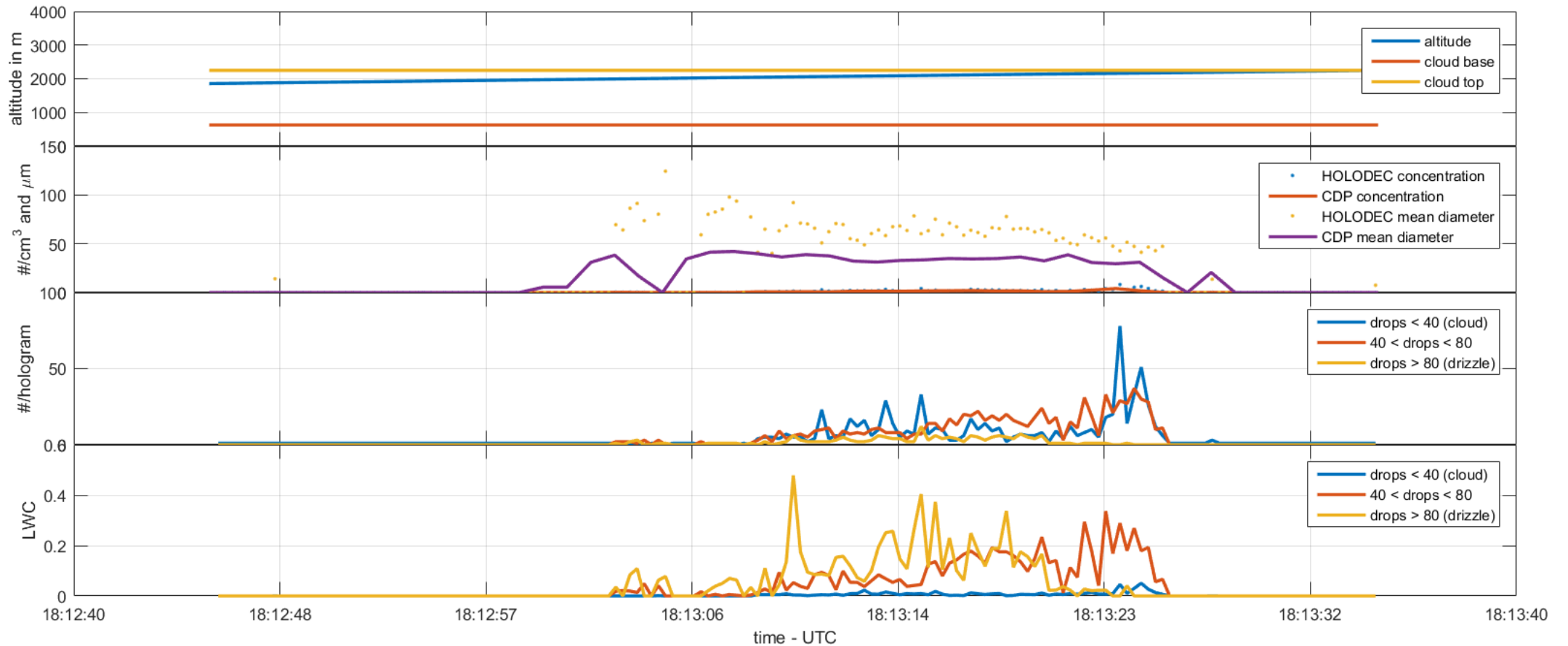
RF07:  
HI -> CA

★ The 4 cases

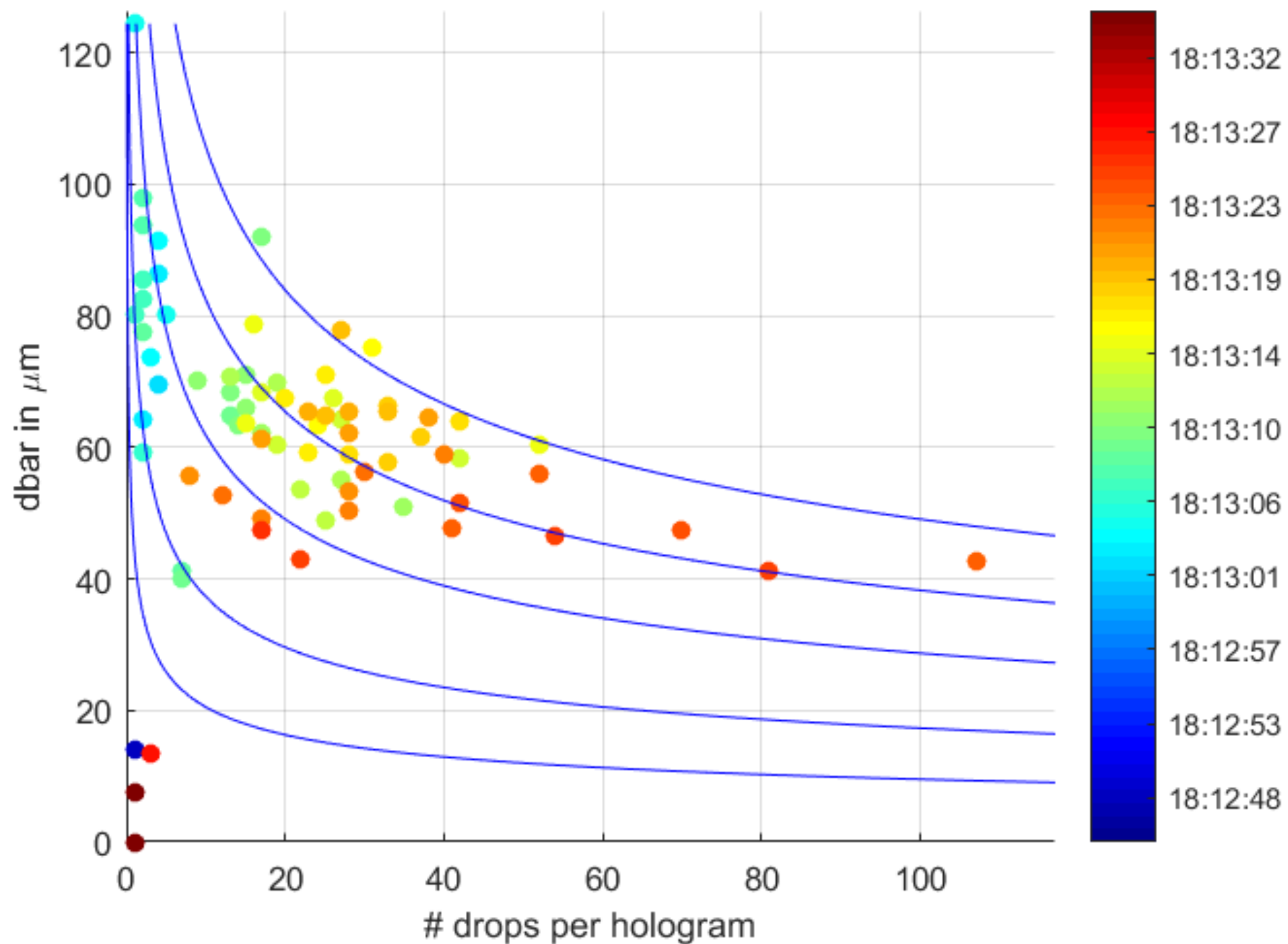




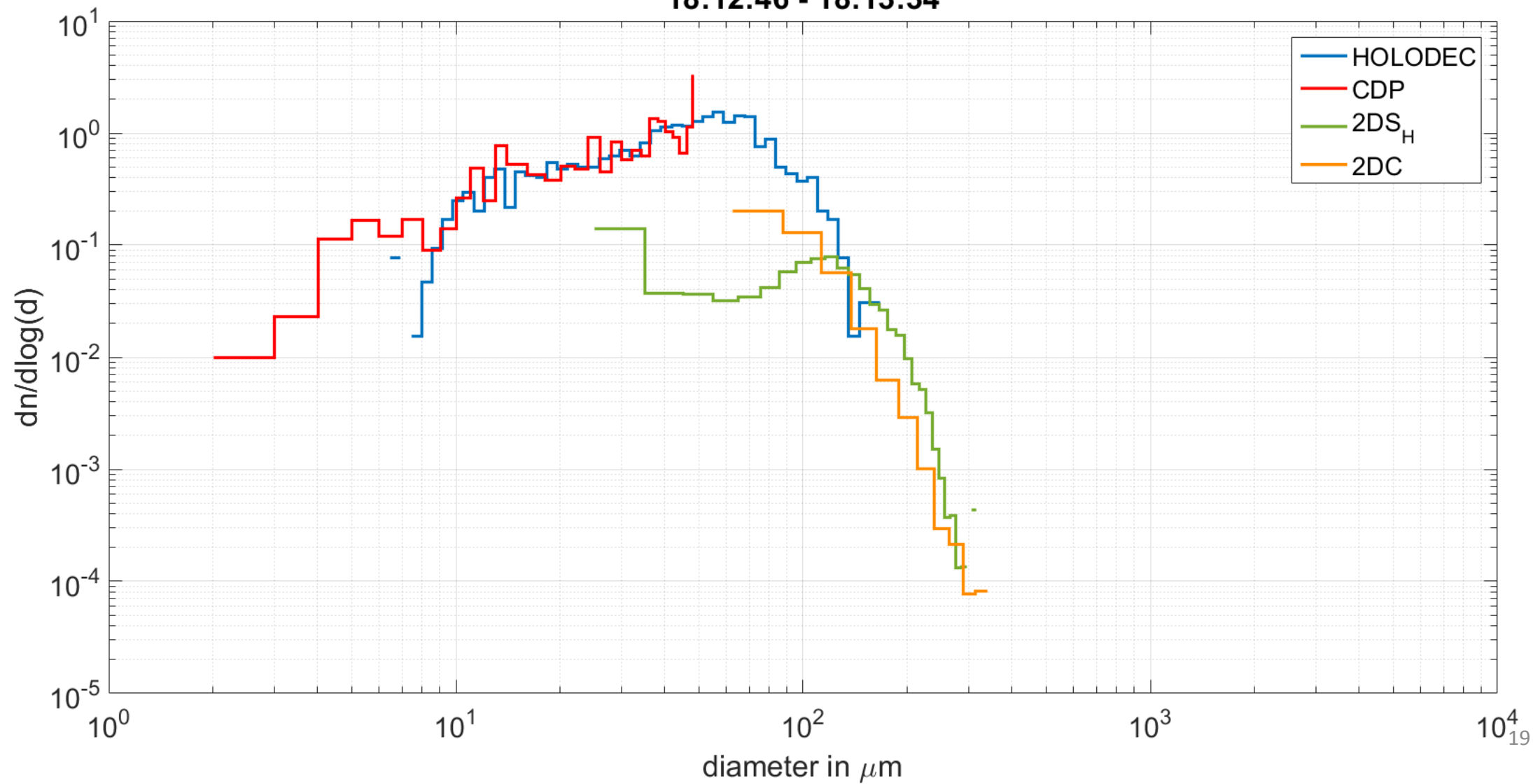
# Case 4: 18:12-18:14 (1p)



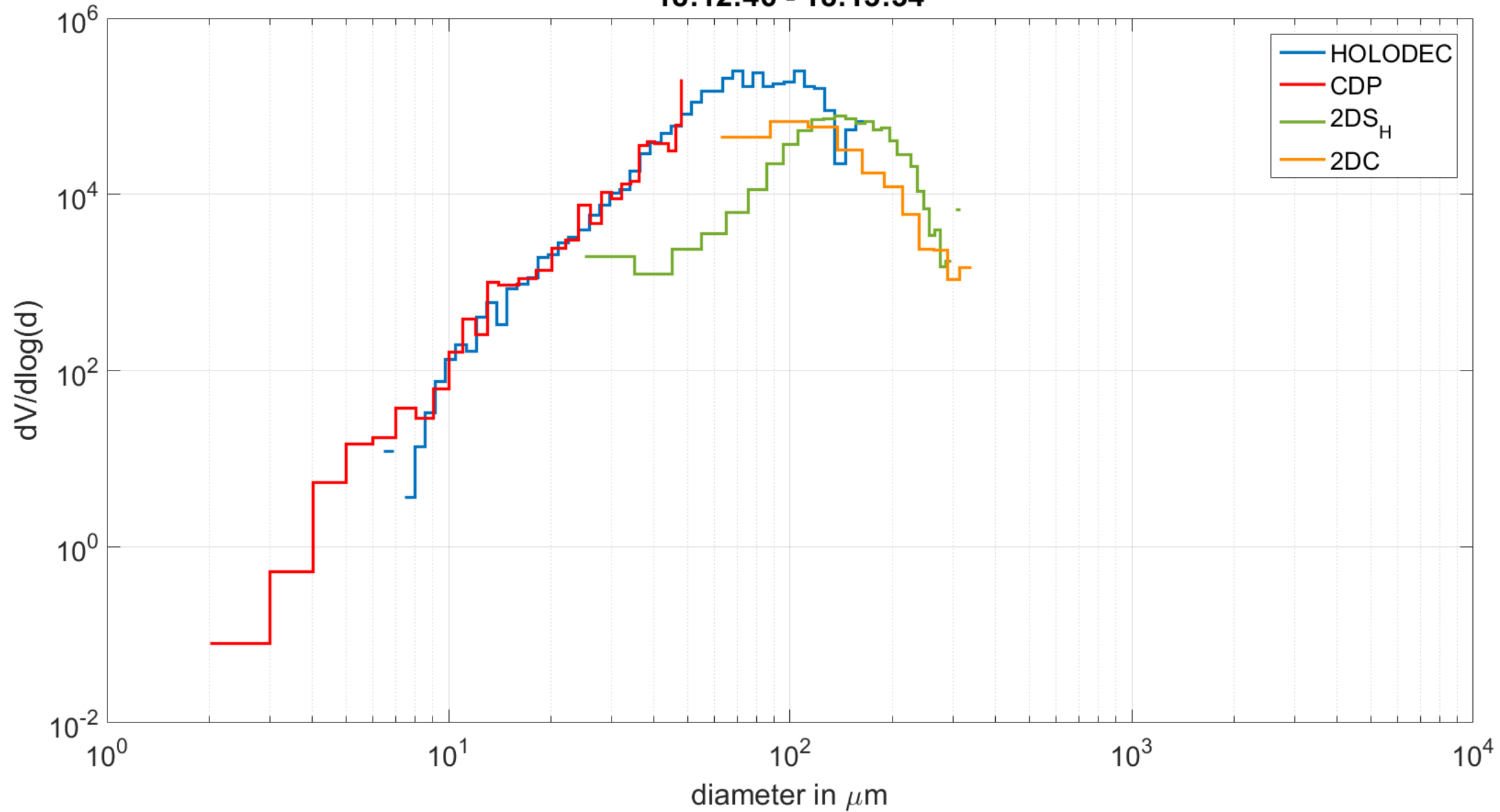
HOLODEC data - dbar vs conc



18:12:46 - 18:13:34

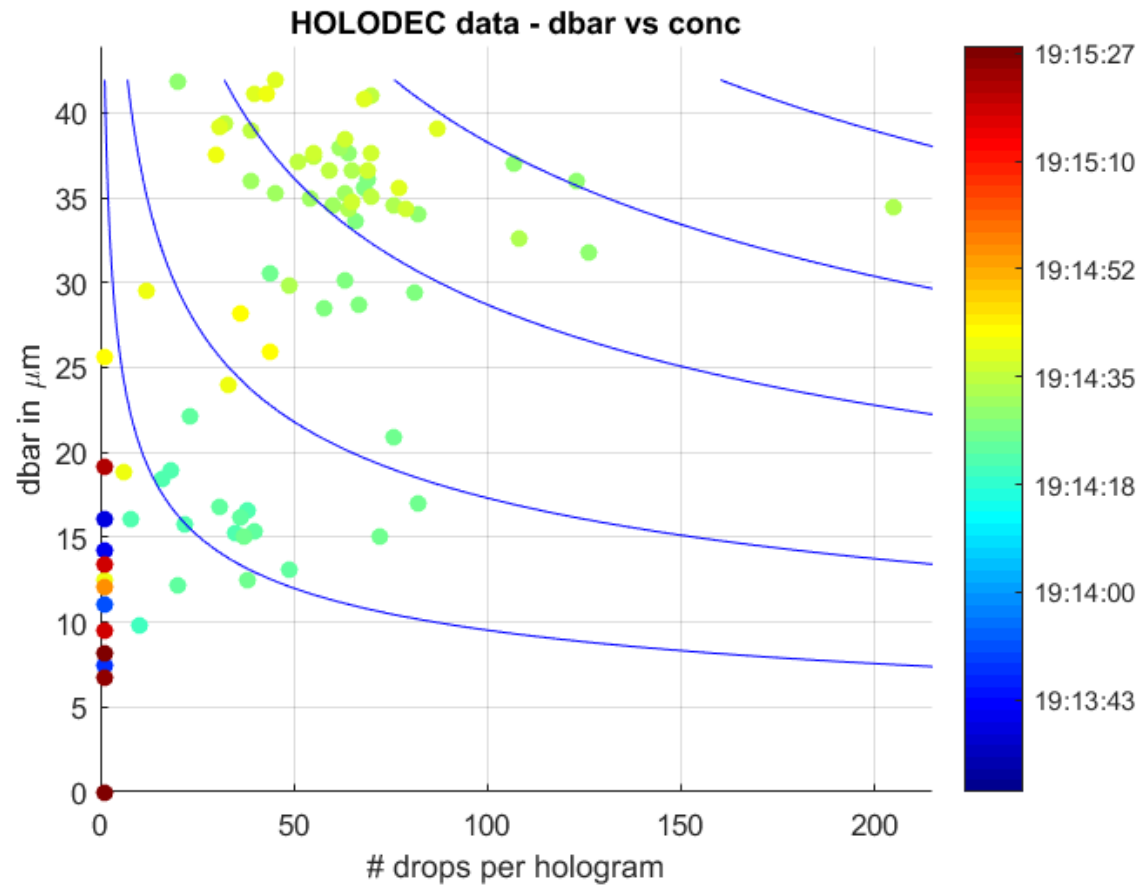


18:12:46 - 18:13:34

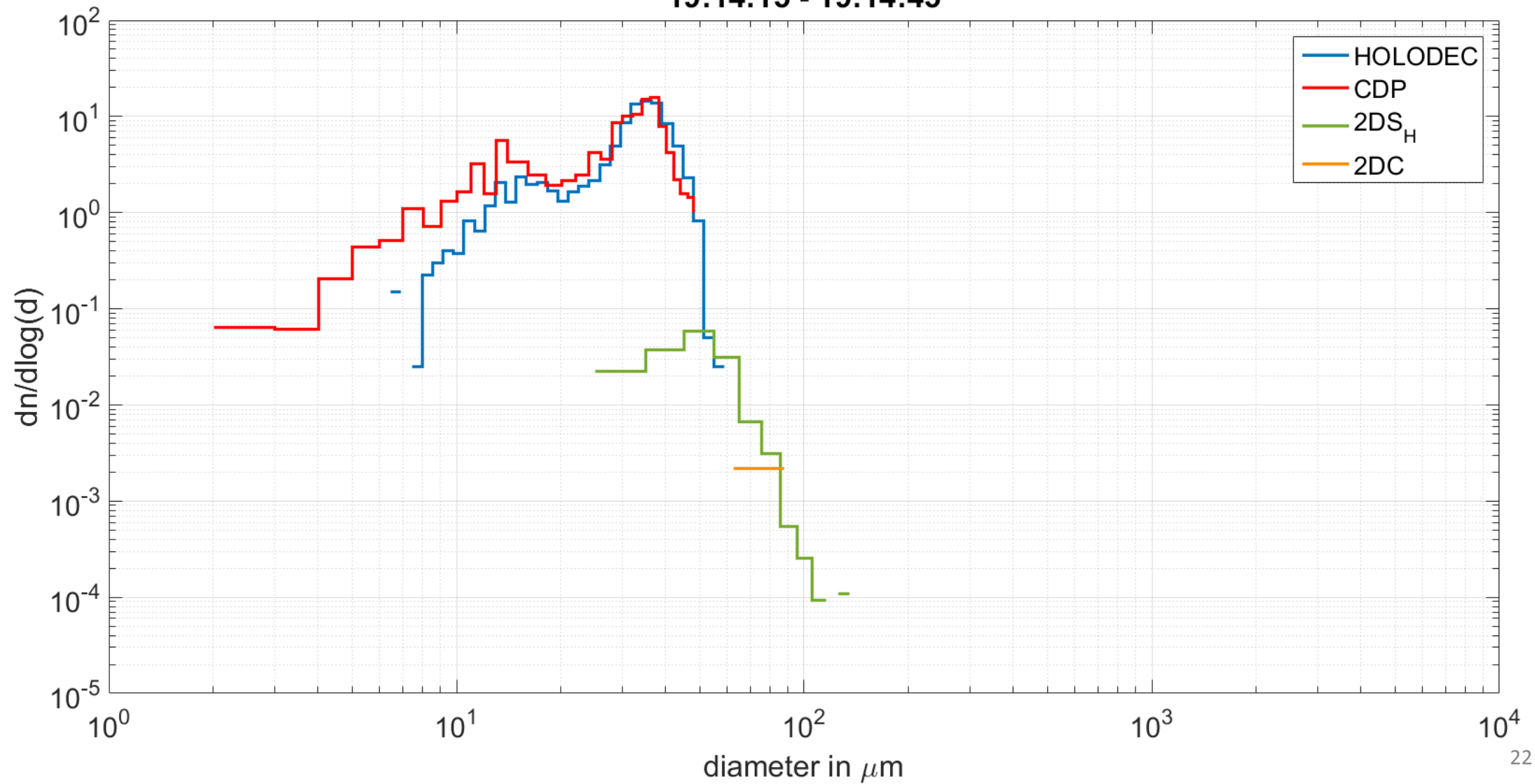


# Case 3: 19:14-19:15 (2p)

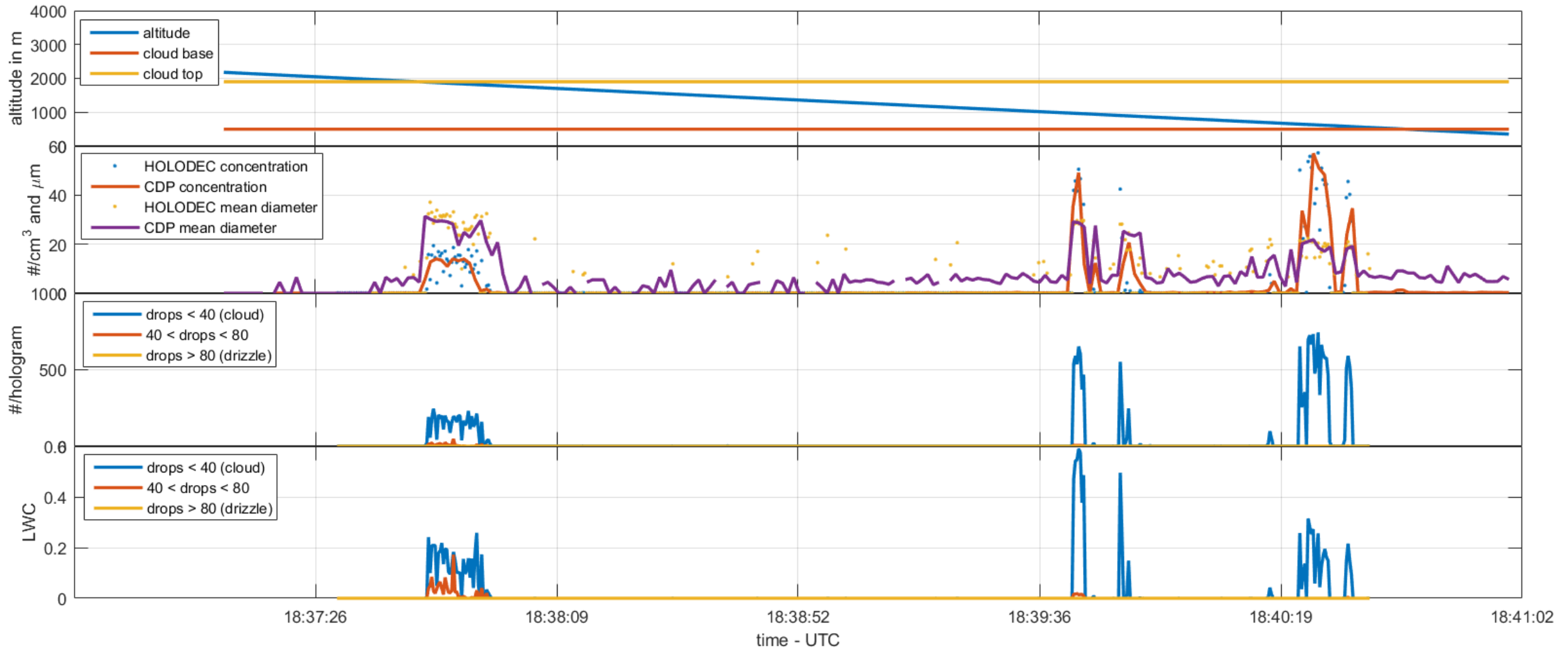
- Example of an ultra-clean cloud layer (very low droplet number density)



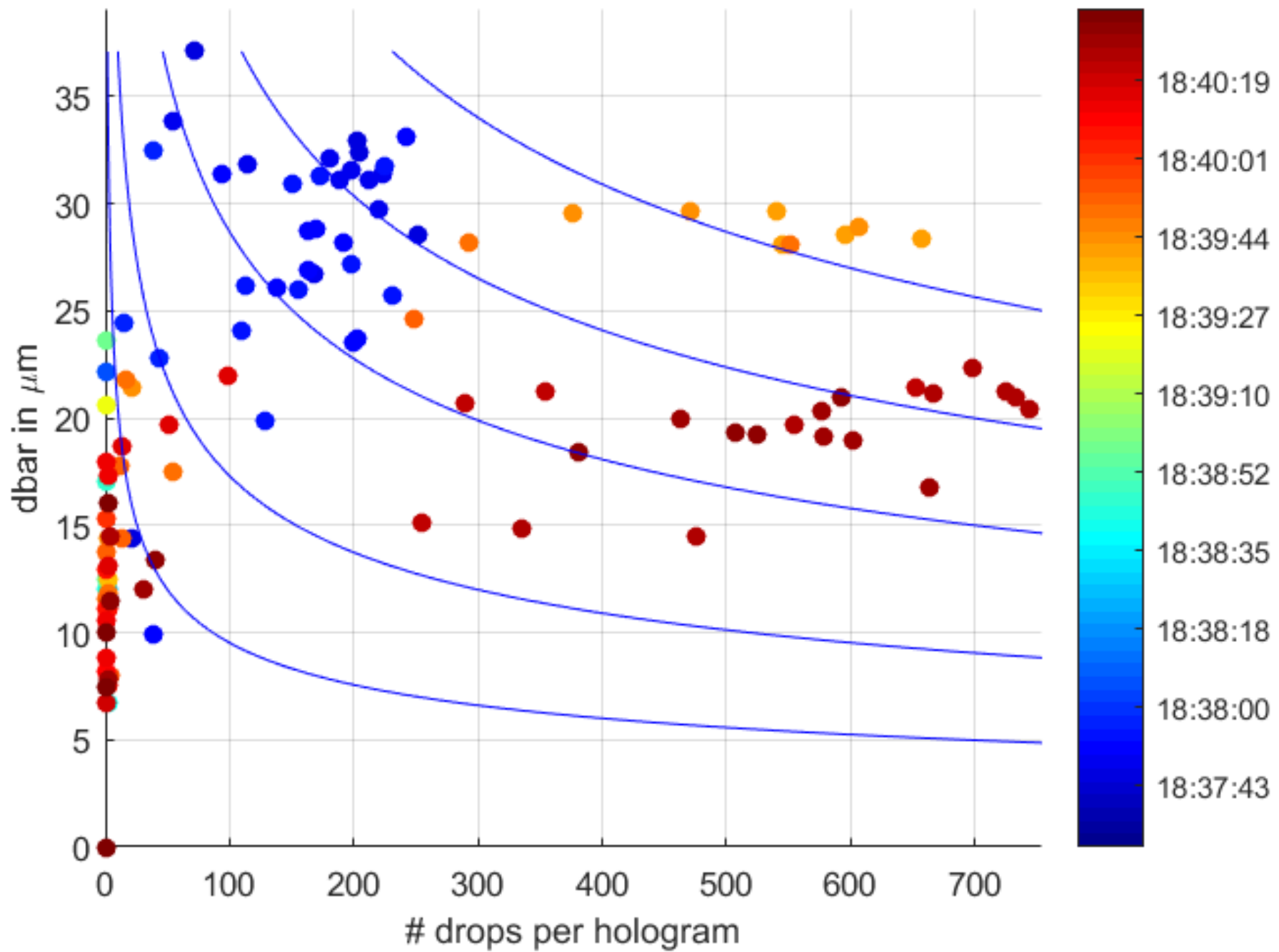
19:14:15 - 19:14:45



# All 2d

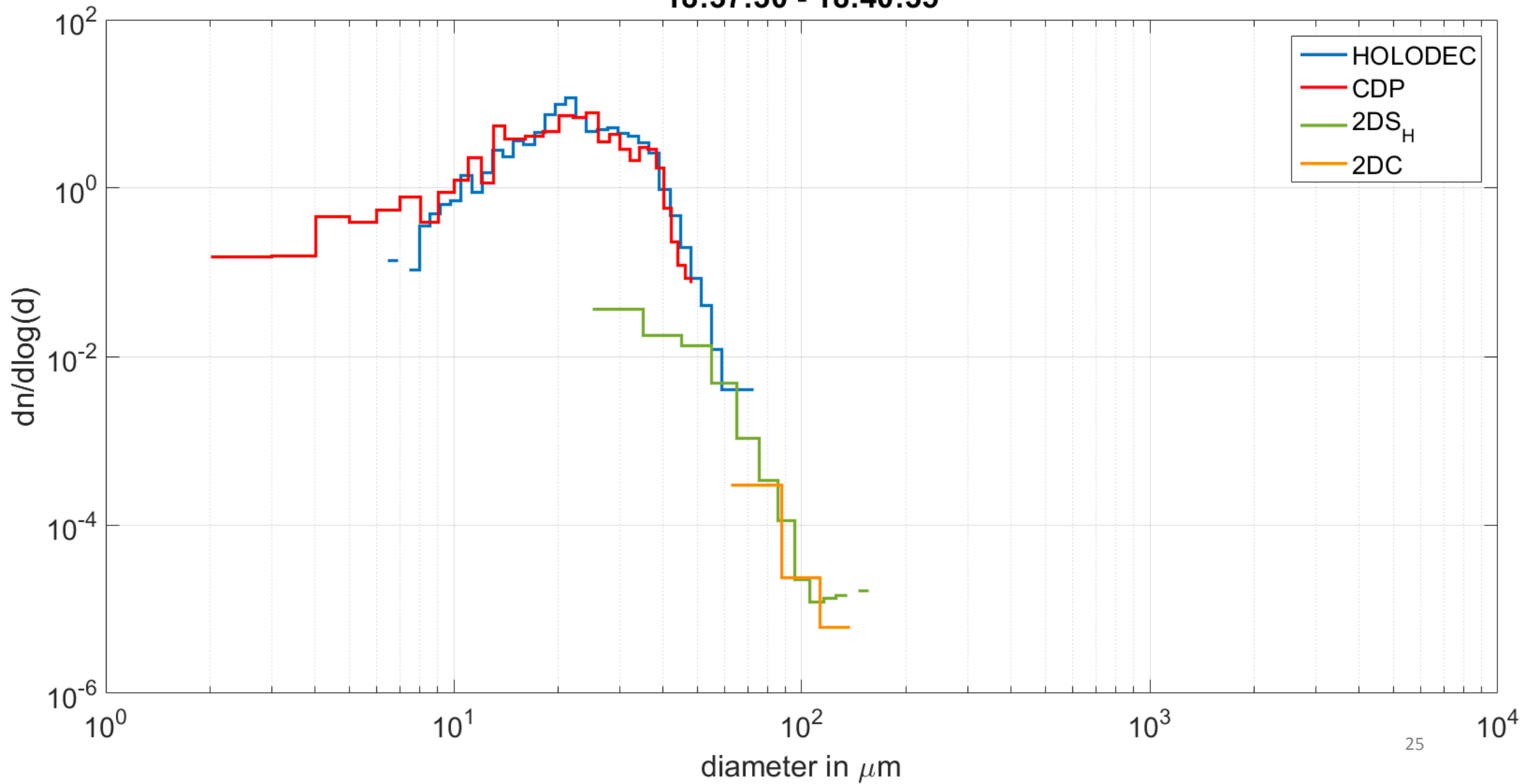


HOLODEC data - dbar vs conc

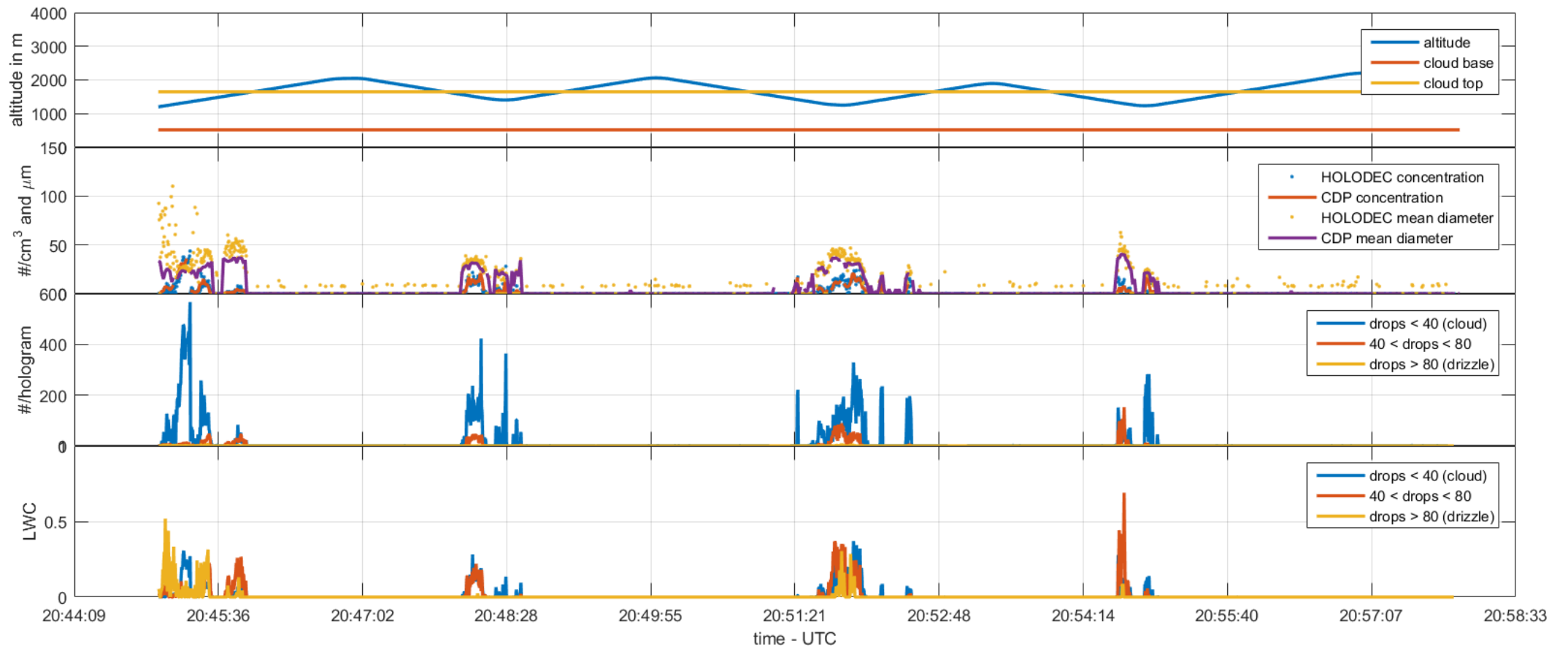




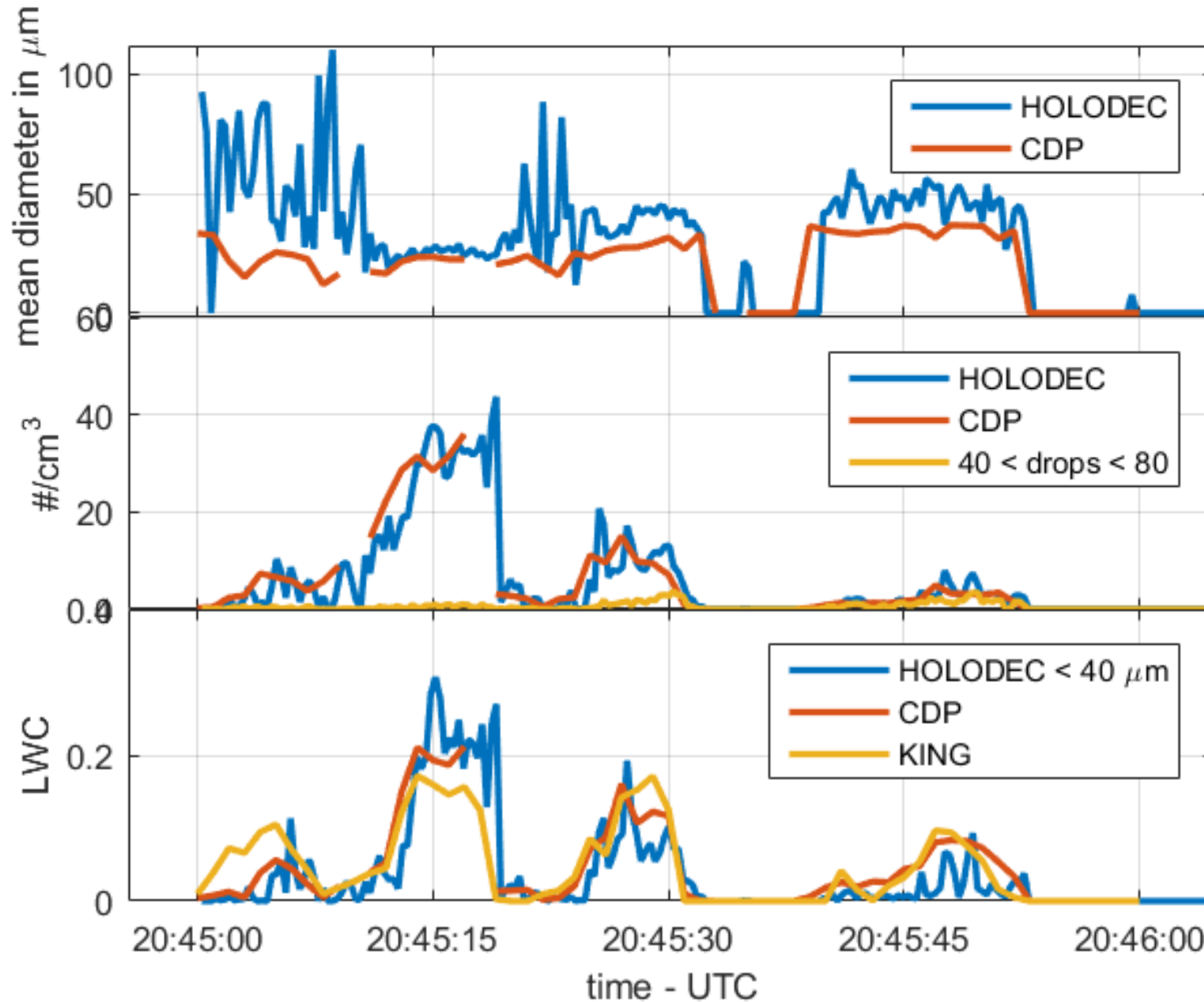
18:37:30 - 18:40:35



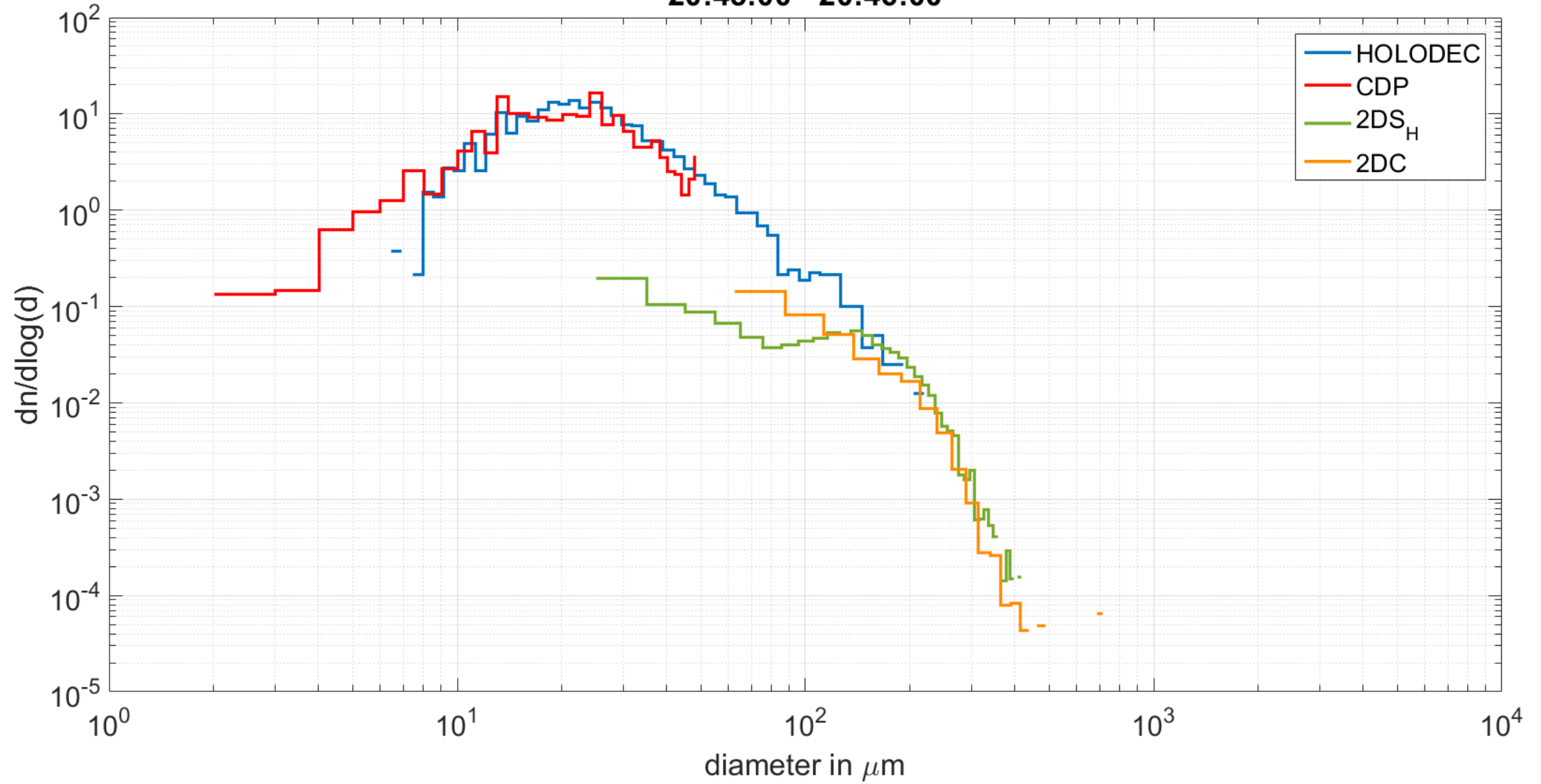
4p



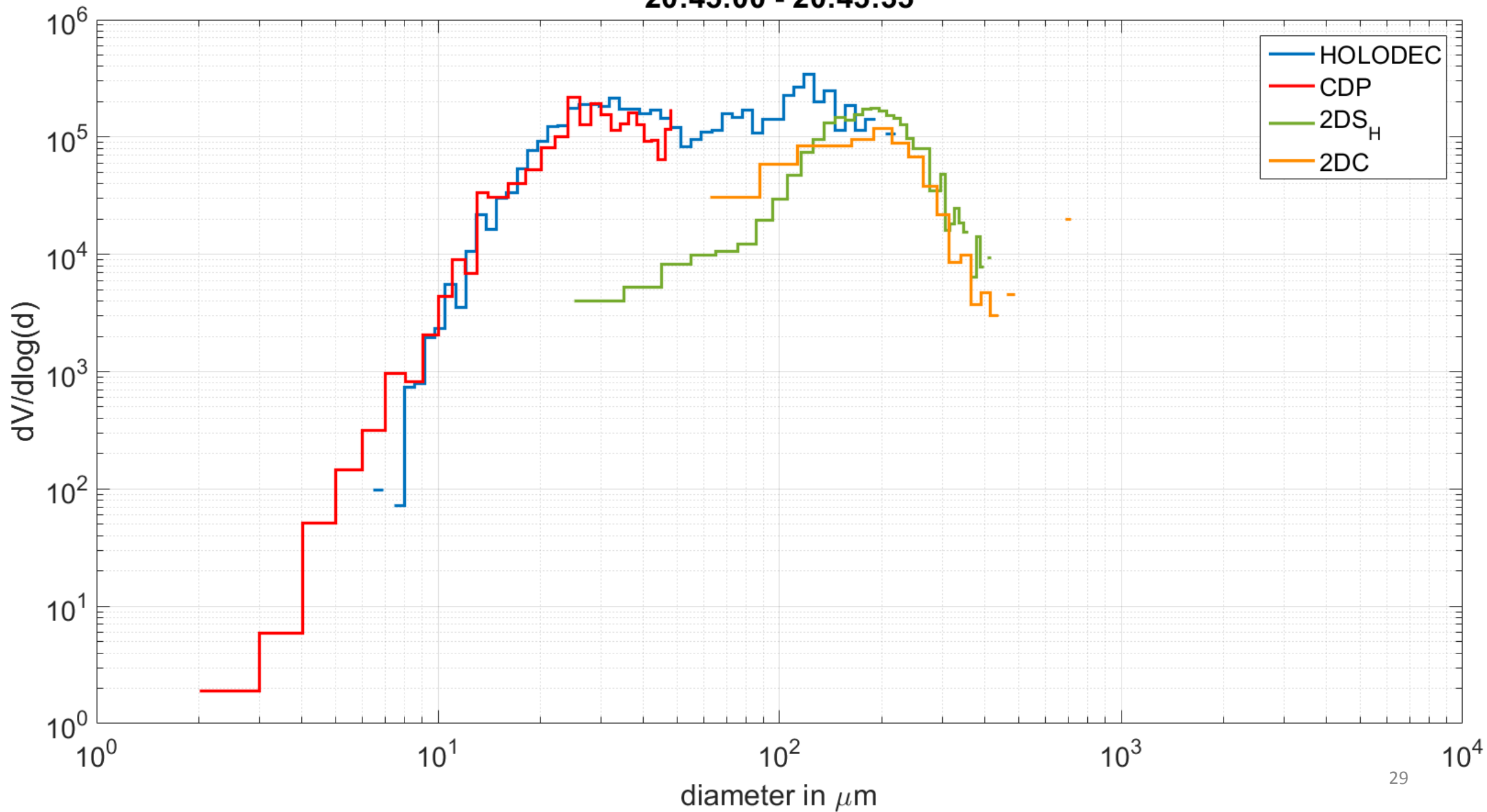
# Case 3: 20:45-20:46 (4p) – ascending – drizzle



20:45:00 - 20:46:00

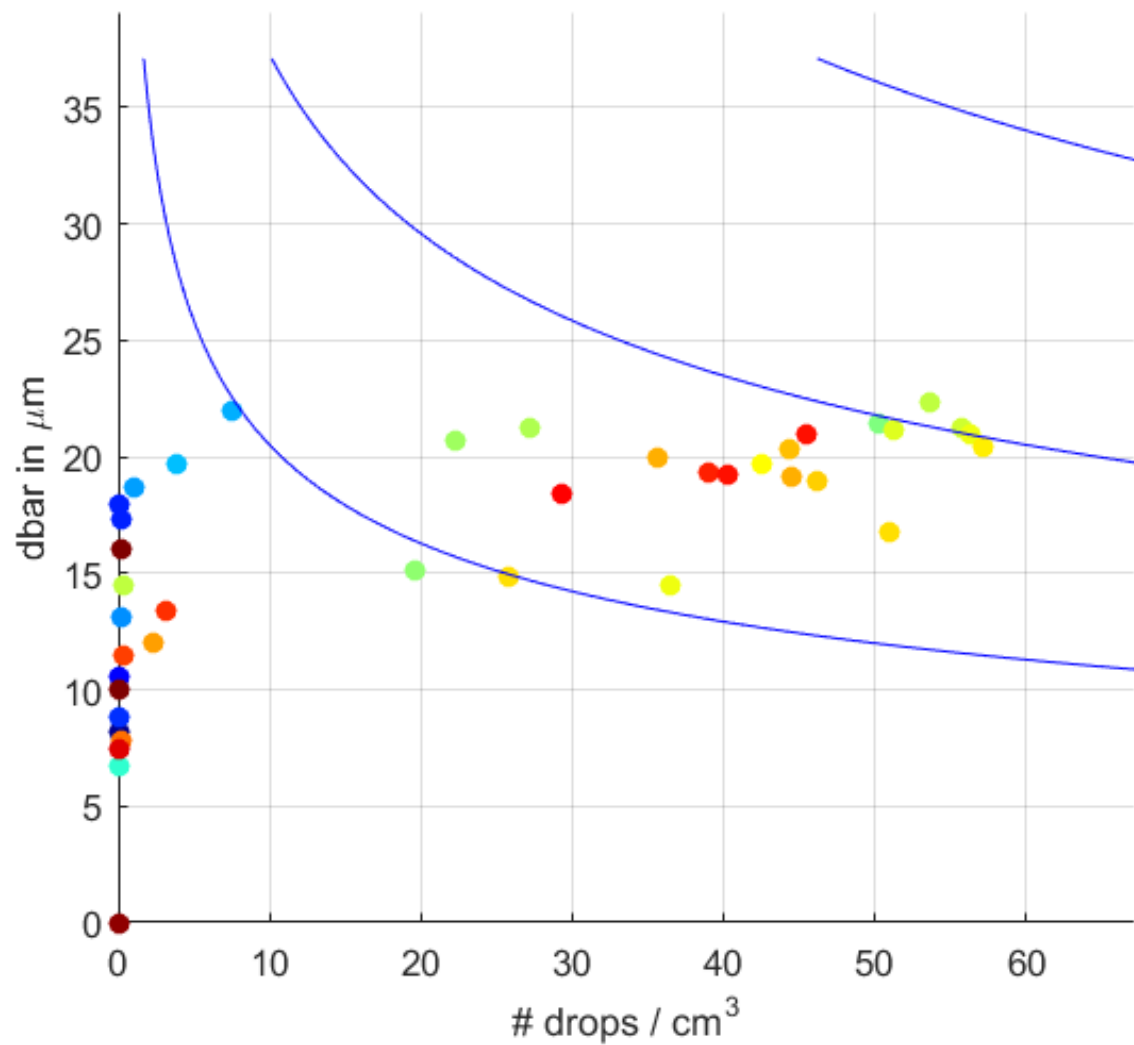


20:45:00 - 20:45:35



Case 2

**HOLODEC data - dbar vs conc**



Case 3

**HOLODEC data - dbar vs conc**

