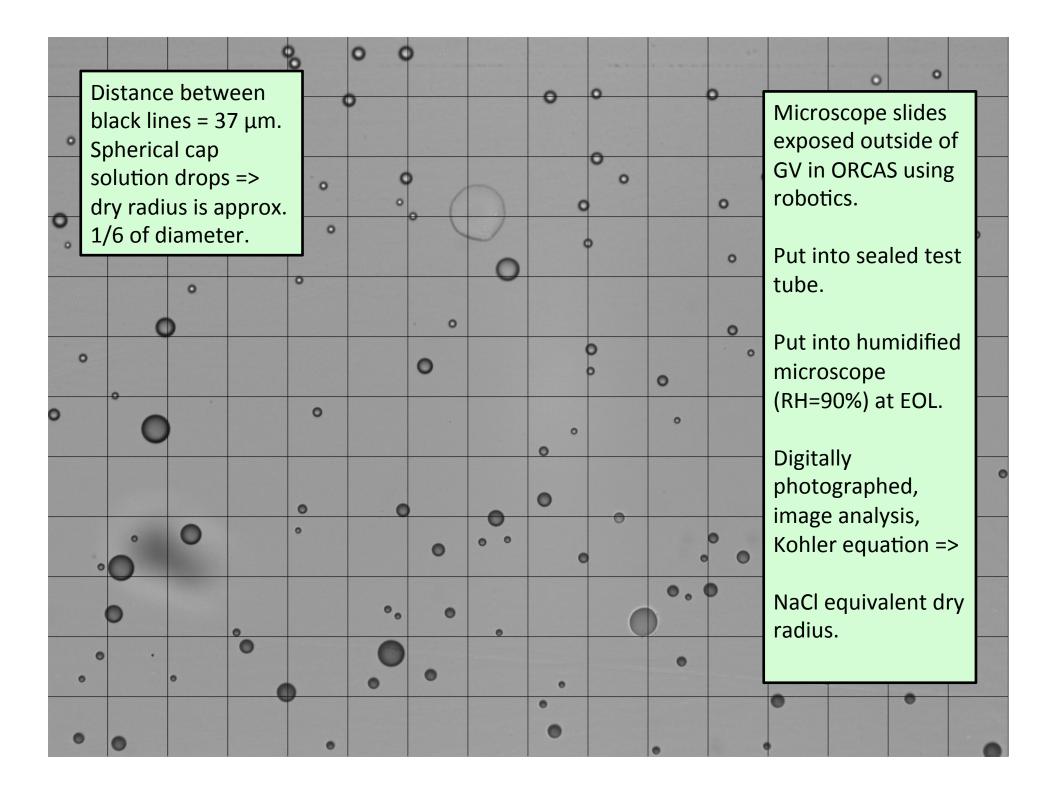
Why sample giant sea-salt aerosol particles in ORCAS:

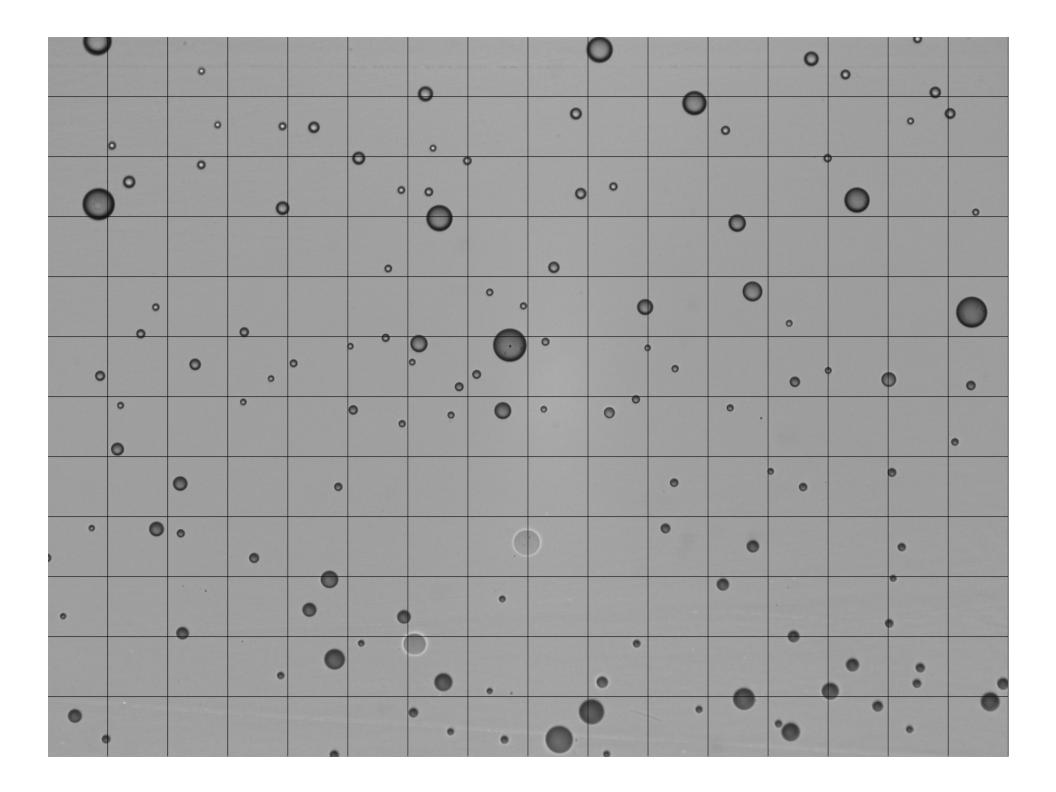
An important part of the aerosol population (most mass is in the coarse mode or "giant aerosols")

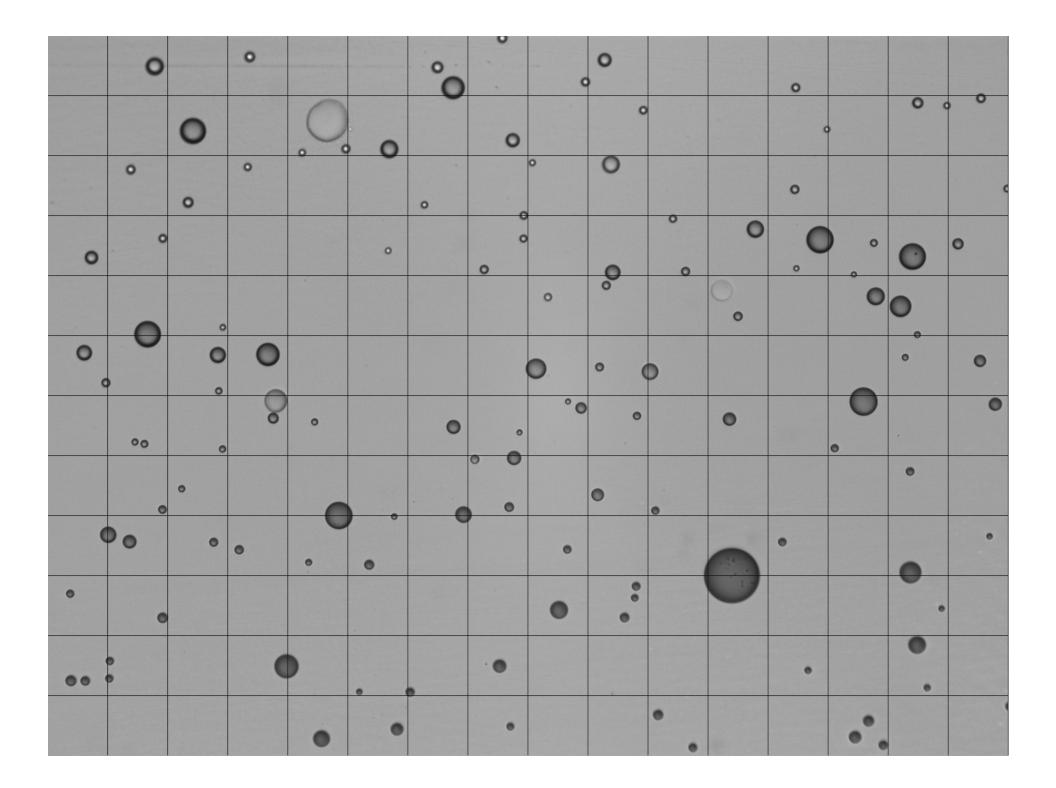
Important for forming large condensational drops, leading to early coalescence (warm rain formation)

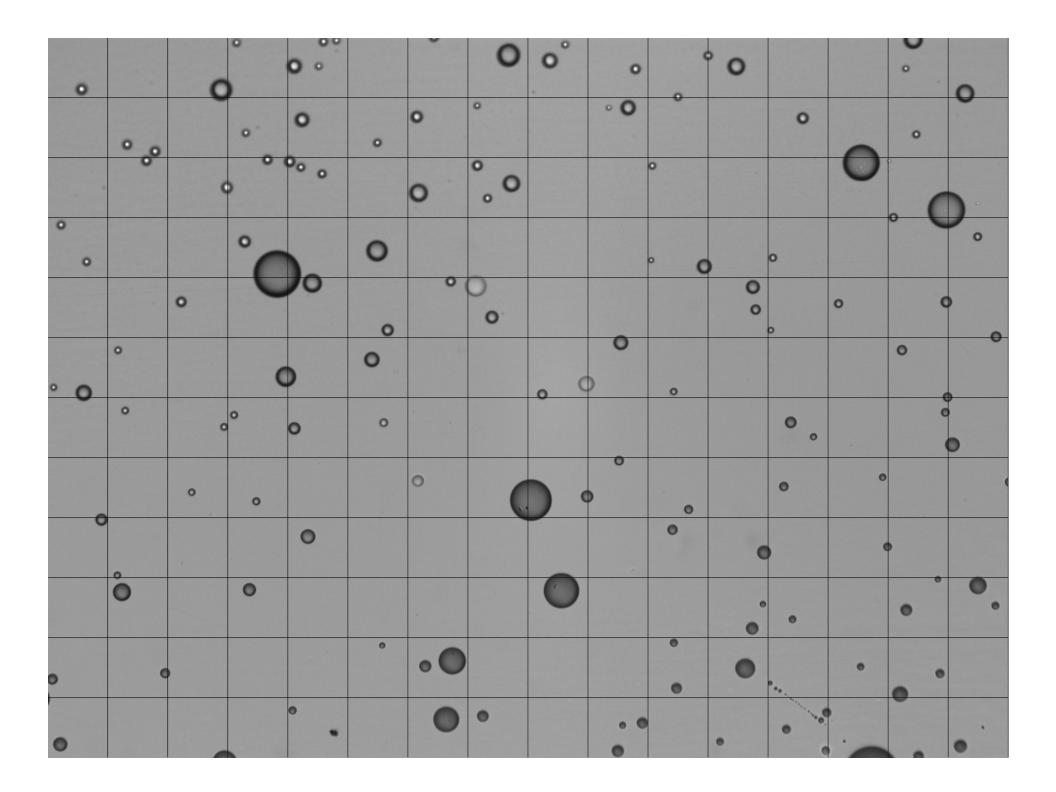
Sampled from GV during ORCAS

Jorgen Jensen jbj@ucar.edu





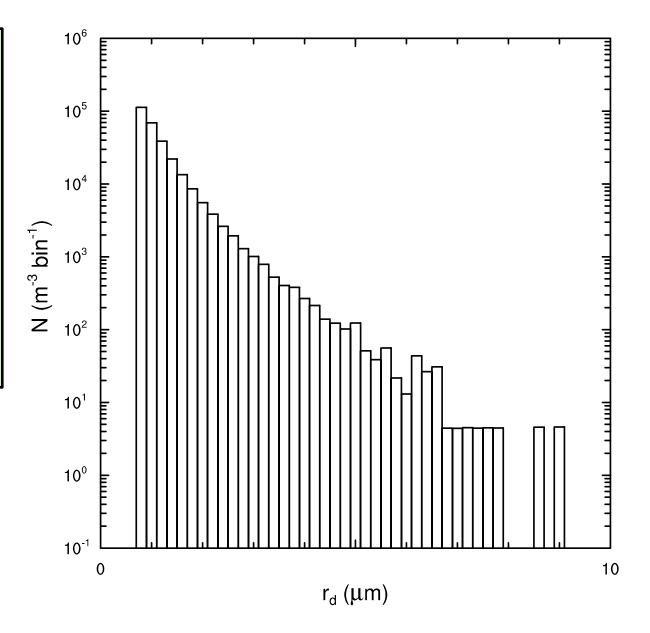




Size distribution of seasalt giant aerosol particles (GCCN).

Impacted particles up to 13 μm dry radius (NaCl equivalent), this slide has sizes up to 9 μm dry radius.

[Note: Histogram from VOCALS]



What has been done:

Microscope system re-built this summer

A few slides analyzed (takes 3 days for 40 slides in microscope, takes 3 days for image analysis)

Much more to do.

Preliminary observations:

Looks like smaller particles than in warmer regions

Much more to come in the next 6 months.