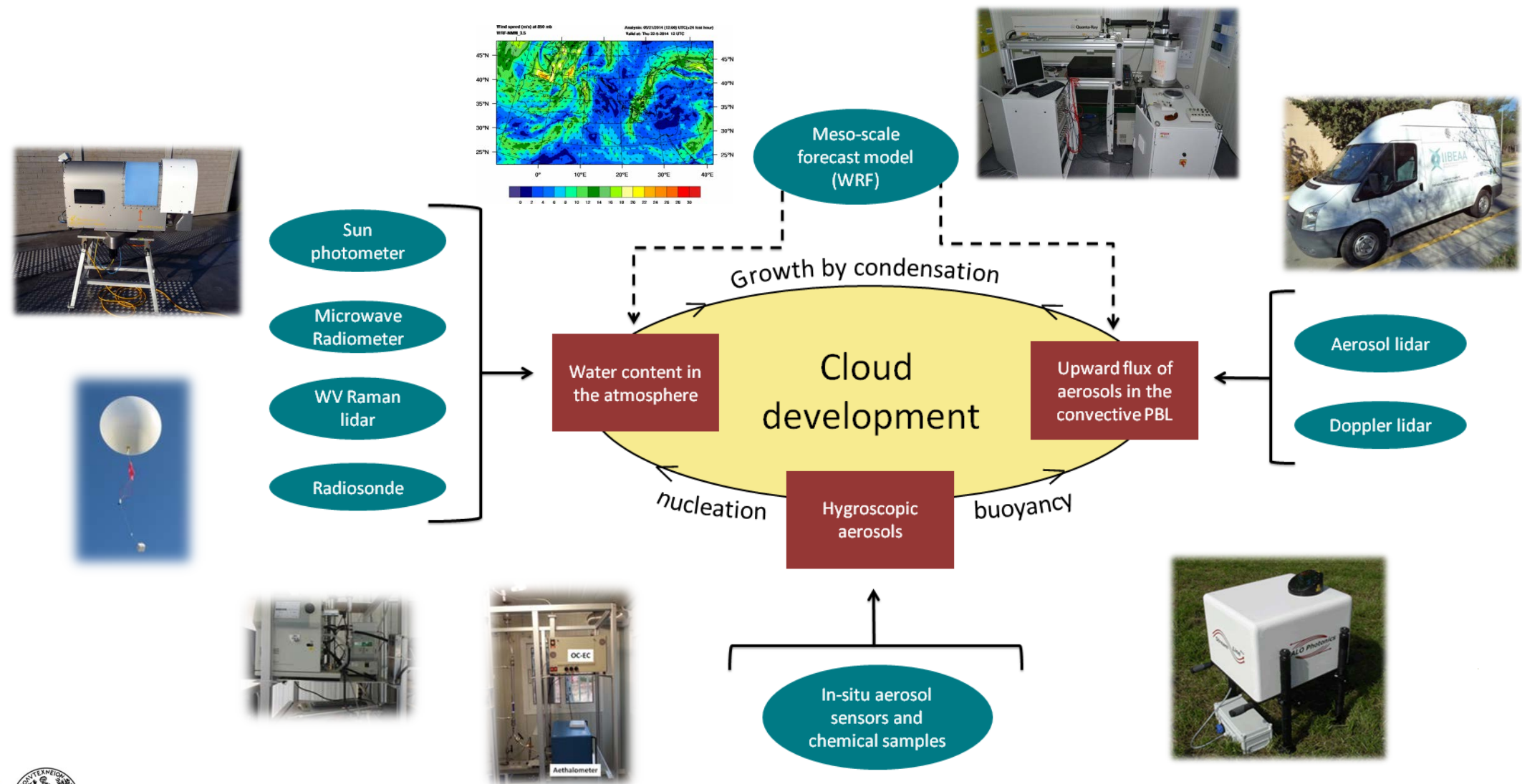
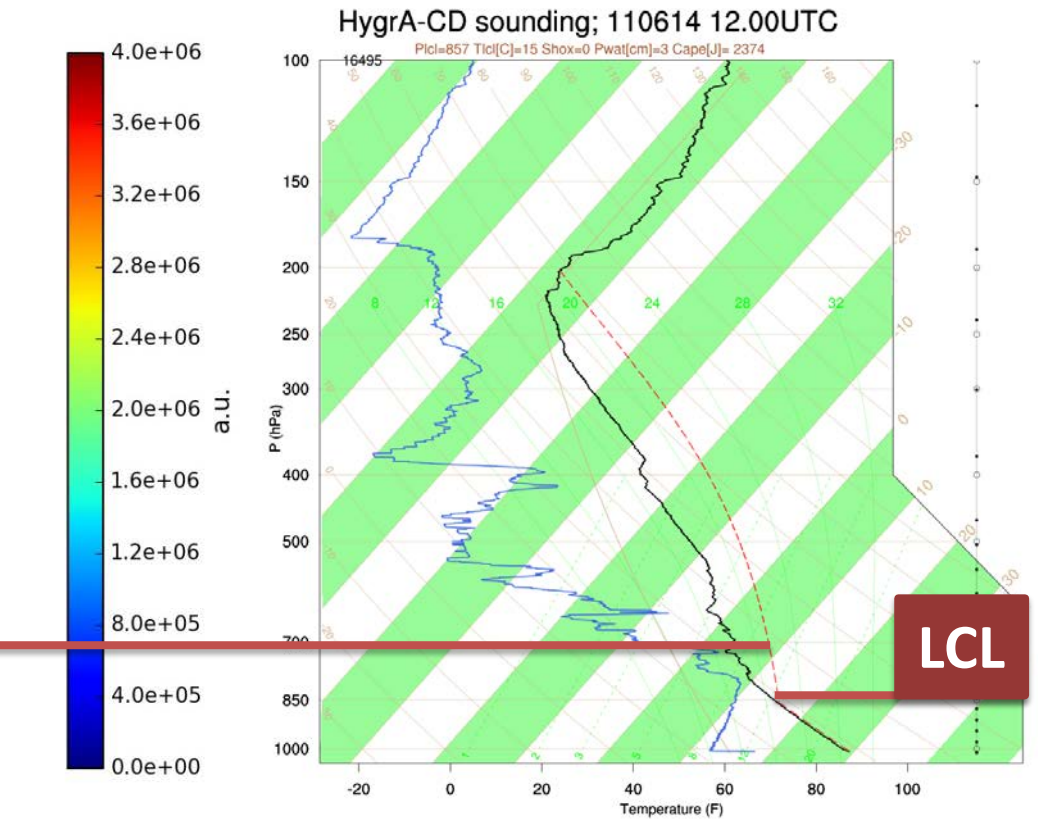
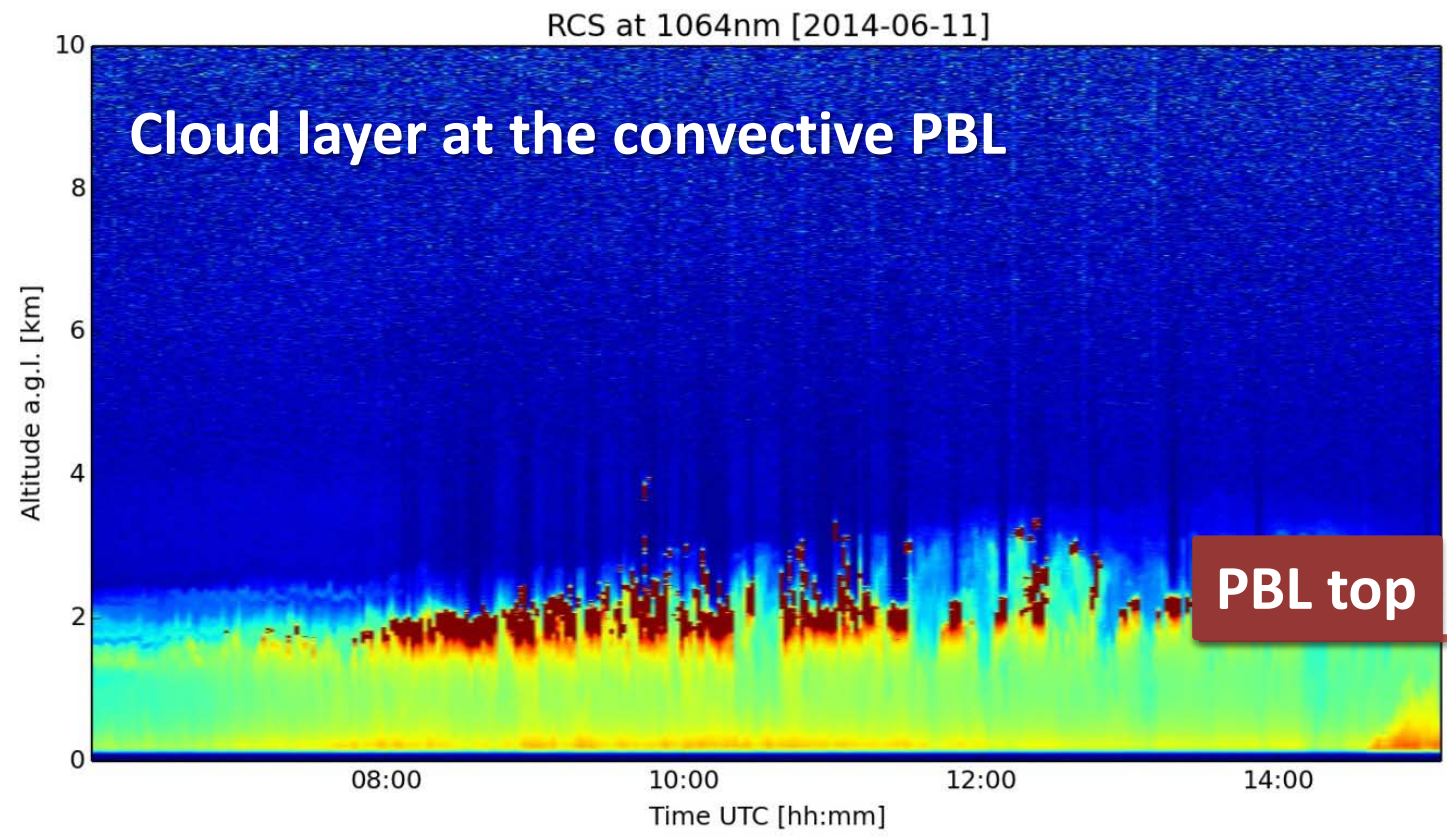


# Cloud-topped Planetary Boundary Layer

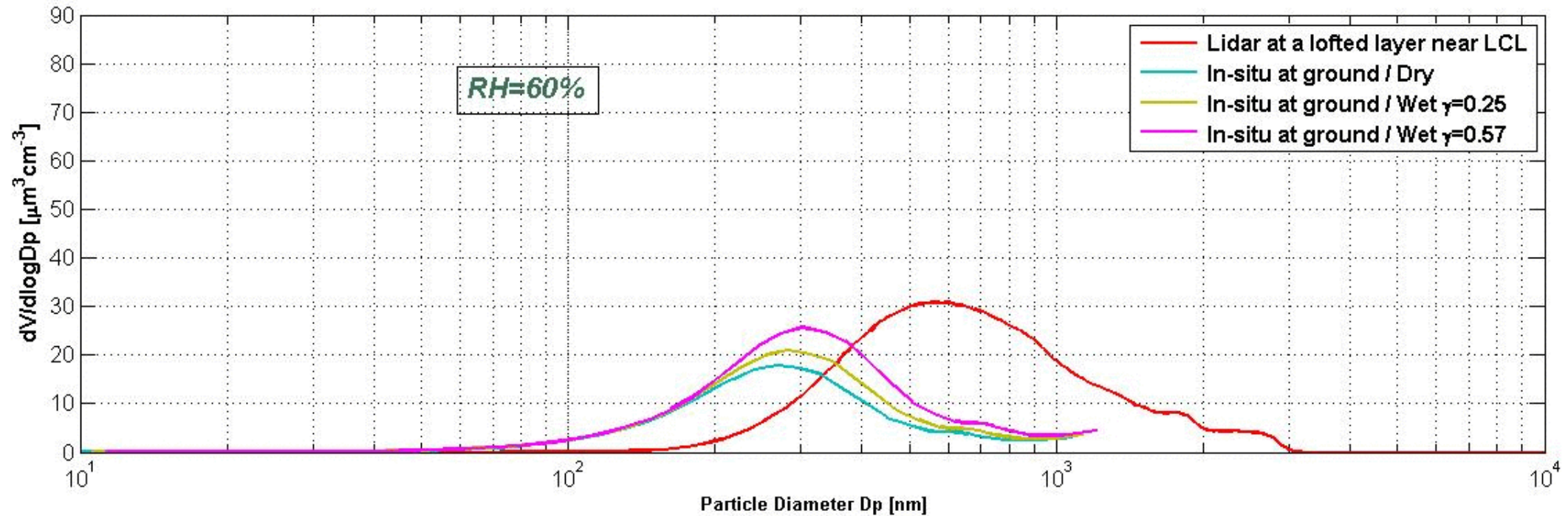


# Cloud-topped Planetary Boundary Layer



**Lifting Condensation Level (LCL) within the Planetary Boundary Layer (PBL)**

# Aerosols' hygroscopic growth



Comparison of aerosol volumetric size distribution at **ground** and **LCL**:

- Aerosol size distribution at the lofted layer around LCL retrieved from a Raman lidar
- Aerosol size distribution at ground at dry conditions measured by a spectrometer
- Corrected to the ambient RH at the LCL with respect to the hygroscopic  $\gamma$ -parameter