

## AOS 580 AEROSOL, CLOUD AND CLIMATE

### Lecture 15: Cloud Microphysics (Instructor: Yi Ming)

#### Reading

SP (1<sup>st</sup> ed.) 777-812

#### Class notes

1. Clouds: An important component of the Earth's climate system (radiation, hydrological cycle, dynamics, pollution, chemistry, etc.)
2. Conditions necessary for forming clouds
  - Saturated water vapor
  - Aerosols as cloud condensation nuclei (CCN).
3. CCN activation – Kohler equation
4. Droplet activation in a parcel model