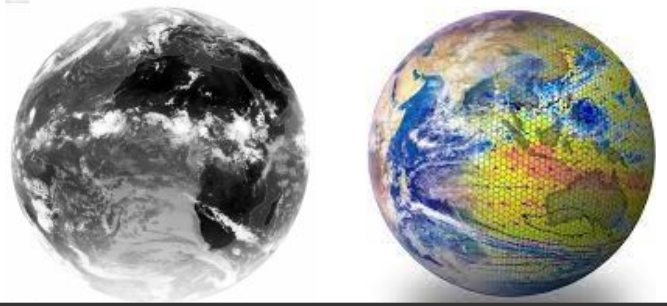
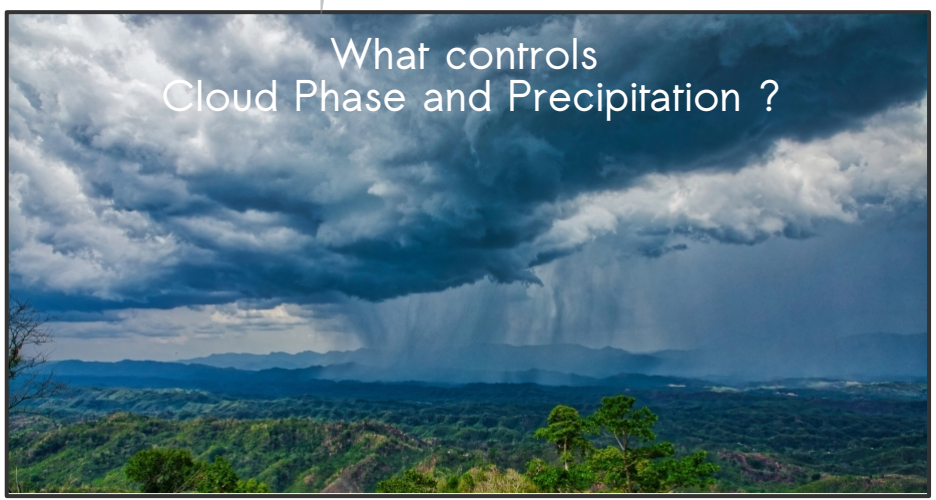
GASS
Global Atmospheric System Studies

Overarching Questions

How do the micro to meso scale atmospheric processes control global Water and Energy Exchanges ?



→ radiation budget
→ hydrological cycle
→ atmospheric circulations



How will GASS help address these questions ?

- By coordinating projects/activities :

  Daily cycle precipitation (DCP)
  Aerosols and precipitation (GAP)
  Upper tropospheric clouds (UTCC)
  Land surface temperature, snowpack and precipitation (LS4P)

  Mesoscale organization of shallow convection (EUREC^{4}A)
  Mesoscale organization of deep convection
  Cold air outbreaks (COMBLE+)
  Convective momentum transport and its impact on the tropical circulation (Friction)
  Air-sea coupling

  Global Cloud Resolving Model simulations (DYAMOND)
  Coupled models nudging

- Sharing info and facilitating access to relevant model outputs and observations (e.g. how-to's, hackathons, seminars)

- Sharing process-oriented diagnostics and codes (e.g. MCS tracking)

- Organizing workshops that will bridge expertises and communities around key questions

- Connecting to other WCRP partners (e.g. GDAP/GLASS/GHP, CFMIP, WGNE)