

(Low) Cloud Feedbacks Breakout

- Marchand/Blossey/Bretherton/Ackerman, High resolution MMF Experiments.
 - Decreased Δx makes Sc worse, cautious optimism on Trade Cu.
 - Issues w/mismatch between grid and MISR pixel size in judging cloud fraction
- Khairoutdinov, Mock Hadley Cloud Feedbacks
 - Positive cloud feedbacks in this setup w/two moment microphysics, negative cloud feedbacks using single moment microphysics in another setup.
- Khairoutdinov, Converged Sc Simulations using SAM & Sensitivity to +2K SST
 - Roughly converged Sc results at $\Delta z = 0.5-1\text{m}$ ($\Delta x = 35\text{m}$).
 - Modified DYCOMS RF01 setup to explore climate sensitivity to +2K SST increase.
- Yamaguchi, A New Advection Scheme in SAM.
 - Described & tested a new advection scheme.
 - Improved representation of Sc clouds in simulation of DYCOMS RF01.
- Wyant/Bretherton/Blossey/Khairoutdinov, MMF Response to 4xCO₂
 - Low cloud albedo over oceans decreases, likely due to less radiative cooling.
 - Land warms relative to ocean. Precip and high cloud move to land from ocean.
- Encouraged participation in CGILS.