Cloud Life Cycle WG Closing Plenary

21 March 2013





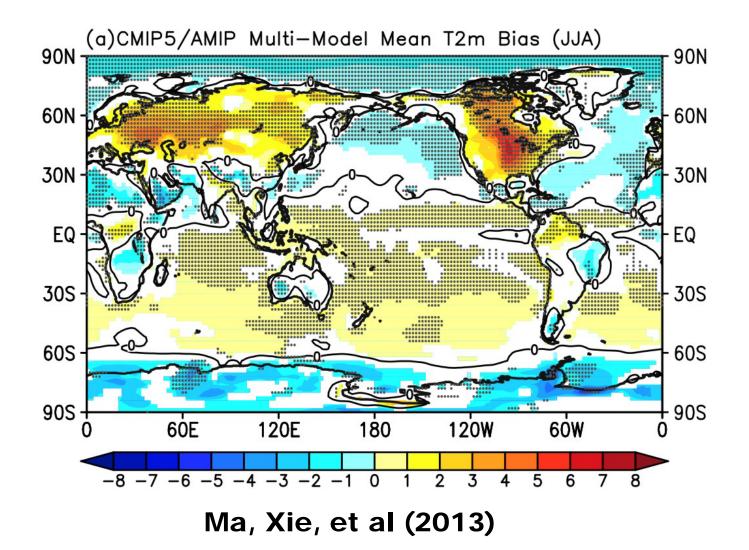
Agenda

- Breakout Summaries (status, plans, participation, leadership)
- Discussion of evolving themes / cross-cutting themes
- Priority activities / data
- CLWG future path: Towards fall meeting and beyond.





Warm Bias in Transpose-AMIP models



Priorities: Instruments

- Doppler lidar at NSA
- 1625 nm channel on MFRSR (replacing broadband channel) All sites
- WACR upgrade of computer and receiver
- W-SACR upgrade to improve sensitivity
- SWS (Shortwave Spectrometer) upgrades
- Frost point hygrometer sondes at SGP

We need to engage in Radar activities!





Priorities: Products/VAPS





Current VAP Development Priorities - 1

Mike

- Ship-corrected moments from MWACR and KAZR
- Horizontal wind contamination correction for MWACR, KAZR (MAGIC)
- Full release of KAZR-ARSCL
- Full release of MicroARSCL (radar spectra properties for microphysics applications)
- SACR products cloud mask, attenuation correct, velocity unfolding based on work from Kollias et al
- Convective-Stratiform partitioning from C-band
- Integrated Vertical Velocity product

Scott

- Manus Quantitative Precipitation Estimate (QPE)
- Release of Py-ART as an open source development platform
- Quality Controlled moments from the NSA X-SAPR
- Operational implementation of CMAC (corrected moments antenna coordinates), MMCG (mapped moments on cartesian grid), and QPE at SGP

Current VAP Development Priorities - 2

Jennifer (MAGIC Post-Processing)

- Bulk Aerodynamic Fluxes
- Lidar Corrections
- Coordinating MAGIC-wide post-processing efforts (e.g. radar moments, microwave tip curves, meteorology best estimate)

Shaocheng

- Large-scale forcing for AMIE-Gan and AMIE-Manus
- ARM Best Estimate for land-atmosphere interactions

Laura

- MWRRETv2 Physical retrieval of WV/LW based on 3-channel MWRs
- PBL Height transition sonde-based product to operations and work on lidar product
- Release of RIPBE/BBHRP for MC3E period and work with QUICR/ACRED
- Extend MFRSR Cloud Optical Depth to NSA
- Sea Surface Temperature from IRTs (MAGIC)
- Run AERI Profile for TCAP and GVAX
- Develop NFOV Cloud Optical Depth VAP

Priorities: Campaigns

- Routine aircraft observations -> building critical statistics on ice mass-dimensional relationships.
- Others....





CLWG path forward

• Feedback on general organization and meeting approaches



