Vertical Velocity Focus Group: Mission Statement

The mission of the ASR Vertical Velocity FG is to use ARM measurements to improve the understanding of the connection between cloud microphysics and cloud-scale dynamics and provide observational targets (vertical velocity products) suitable to evaluate Large-eddy simulations, Cloud-resolving models and aspects of large-scale model parameterizations



Vertical Velocity Focus Group: Formation Process

Develop white paper (4 pages, with feedback from the WG chairs) that outlines:

Mission statement
Objectives
Milestones – Measuring progress
Short term (1 year)
Long term (5 years)
Organizational structure
Target/Task subgroups
Participation
Demonstration of progress



Vertical Velocity Focus Group: Objectives

Develop white paper on status of vertical velocity measurements using ground-based observations

Prioritize VV products (Importance, Maturity, Level of effort, validation strategy)

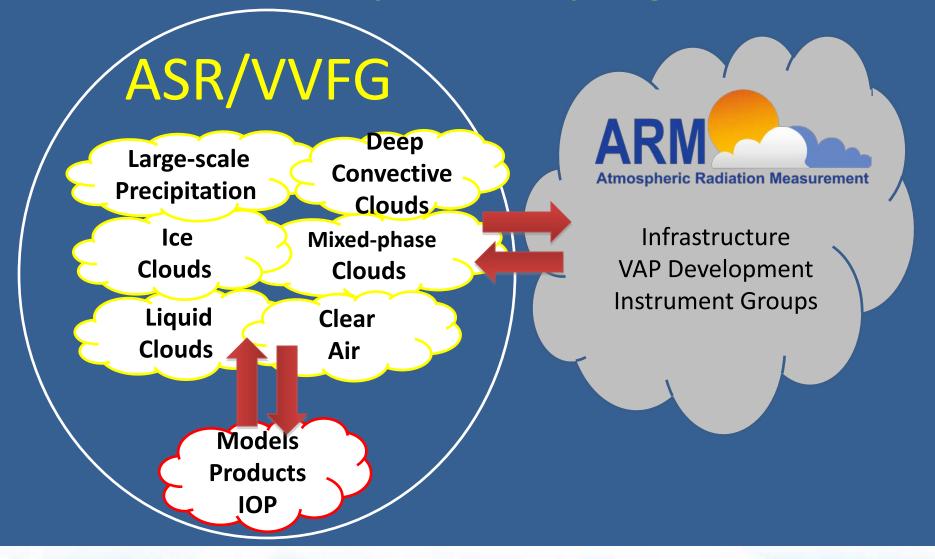
Identify a few VV products that will push towards production (available at the ARM archive)

Integrated suite of algorithm for VV products at all sites and all cloud and precipitation conditions - Active role in future IOP's

Enhance our understanding on how cloud systems dynamics impact cloud microphysics and cloud lifetime



Vertical Velocity Focus Group: Organization





Vertical Velocity Focus Group: Key performance metrics

- i) Number of vertical velocity retrieval algorithms run by ARM with appropriate validation strategy
- ii) Number of vertical velocity products in the ARM archive with emphasis in ARM IOP's,
- iii) Number of publications by VVFG-affiliated scientists using vertical velocity data to understand processes in the atmosphere and clouds.

Other

Participation
Living report (updated every 6 months)
Web site

