## What datasets and results we can provide for DCS group

Xiquan Dong

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- 1) Providing 3-D NEXRAD radar and its classified components (CC, SR, AC)
- 2) Providing UND aircraft in situ measured DCS cloud properties during MC3E

## An analysis of the interactions between biomass burning aerosols and deep convection during the 2011 MC3E campaign

## Xiquan Dong and Tim Logan, University of North Dakota

- Currently studying 2 cases
  - 25 April 2011 Low AOD and deep convection
    - Example of "clean biomass smoke case" weak aerosol/cloud interaction
  - 23 May 2011 High AOD and discrete convection
    - Example of "polluted biomass smoke case" strong aerosol/cloud interaction
- What role (if any) did the smoke play in the evolution of the convective storm development?
- Analyze more cases from MC3E and other instances of smoke/deep convection interactions for future work

## 3D NEXRAD radar and its classified components (CC, SR, AC)



